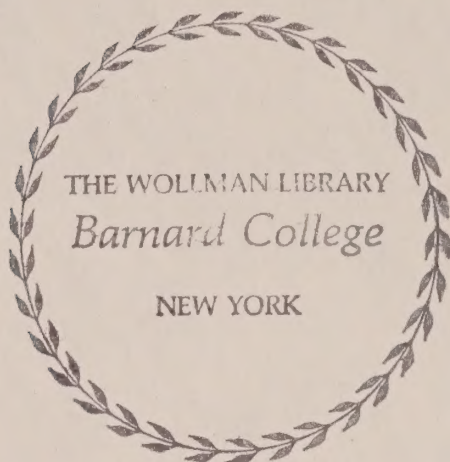



**BARNARD COLLEGE
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ARNARD

**The Undergraduate
College of Liberal
Arts for Women of
Columbia University**

**Announcement
1979 - 1980**



**Morningside Heights
New York, N.Y. 10027**

Communication with the College

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College: **Office of the President**

Academic matters: **Vice President for Student Affairs and Dean of Studies**

Admission to the freshman class or with advanced standing; information about financial aid for entering students; request for Announcements: **Director of Admissions**

Alumnae: **Director of Alumnae Affairs**

Faculty and curriculum matters: **Vice President for Academic Affairs and Dean of the Faculty**

Financial aid and loan funds for students in college: **Director of Financial Aid**

Gifts or bequests: **Director of Development**

Health: **Director of Health Service**

Housing: **Director of Residential Life**

Notice of withdrawal: **Vice President for Student Affairs and Dean of Studies**

Opportunities for self-help; recommendations for employment: **Office of Career Services**

Payment of College bills: **Business Office**

Public relations: **Director of Public Relations**

Request for transcripts: **Registrar**

Student Activities: **Director of College Activities**

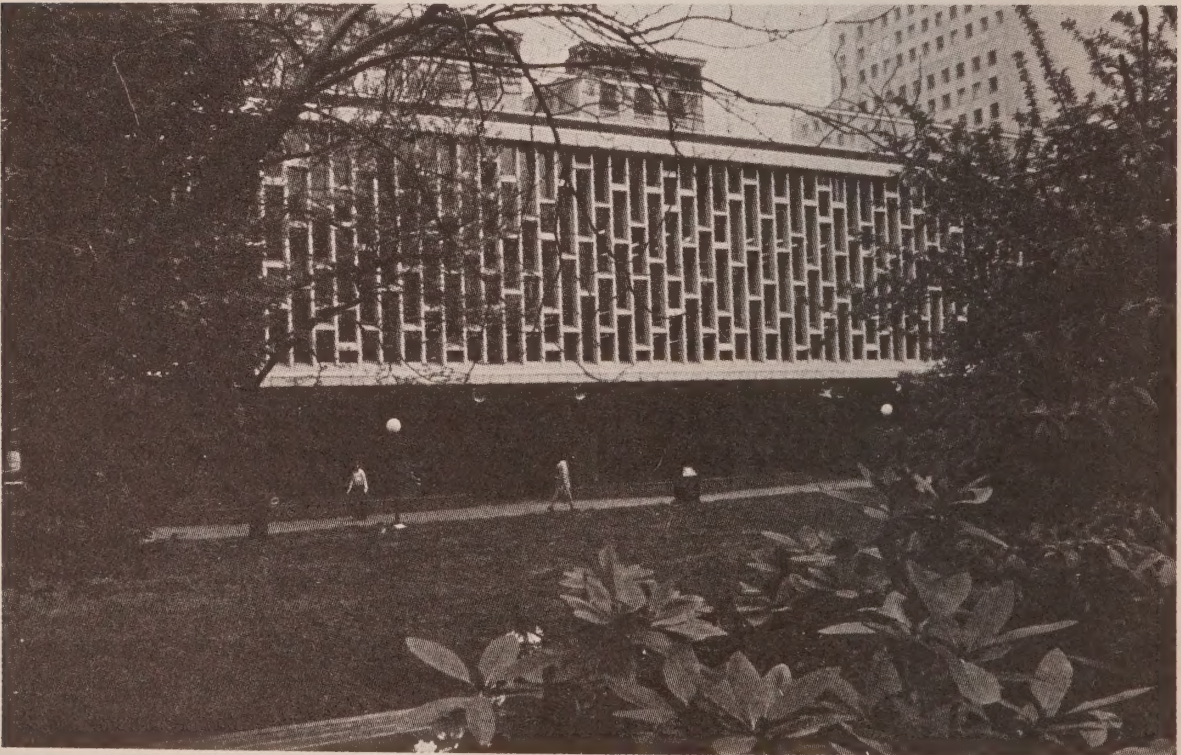


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	Ancient Studies	Geography
	Anthropology	Geology
	Art History	German
	Arts	Greek
	Biochemistry	History
	Biological Sciences	Italian
	British Civilization	Latin
	Chemistry	Linguistics
	Conservation of Natural Resources	Mathematics
	Economics	Medieval Studies
	Education	Music
	Biology "7-12"	Oriental Studies
	Chemistry "7-12"	Philosophy
	Earth Science "7-12"	Physics
	Elementary "N-6"	Political Science
	English "7-12"	Psychology
	French "7-12"	Religion
	Greek "7-12"	Renaissance Studies
	Latin "7-12"	Russian
	Mathematics "7-12"	Sociology
	Social Studies "7-12"	Spanish
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Calendar for 1979-1980

1979

JANUARY SUN MON TUE WED THU FRI SAT	FEBRUARY SUN MON TUE WED THU FRI SAT	MARCH SUN MON TUE WED THU FRI SAT	APRIL SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
MAY SUN MON TUE WED THU FRI SAT	JUNE SUN MON TUE WED THU FRI SAT	JULY SUN MON TUE WED THU FRI SAT	AUGUST SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
SEPTEMBER SUN MON TUE WED THU FRI SAT	OCTOBER SUN MON TUE WED THU FRI SAT	NOVEMBER SUN MON TUE WED THU FRI SAT	DECEMBER SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

1980

JANUARY SUN MON TUE WED THU FRI SAT	FEBRUARY SUN MON TUE WED THU FRI SAT	MARCH SUN MON TUE WED THU FRI SAT	APRIL SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
MAY SUN MON TUE WED THU FRI SAT	JUNE SUN MON TUE WED THU FRI SAT	JULY SUN MON TUE WED THU FRI SAT	AUGUST SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
SEPTEMBER SUN MON TUE WED THU FRI SAT	OCTOBER SUN MON TUE WED THU FRI SAT	NOVEMBER SUN MON TUE WED THU FRI SAT	DECEMBER SUN MON TUE WED THU FRI SAT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

I. College Calendar 1979-1980

AUTUMN TERM 1979—NINETY-FIRST YEAR

September 4-6

Tuesday through Thursday. Registration.

September 4

Tuesday. Language Placement Examinations.

September 6

Thursday. Classes begin 9 a.m. Last day for filing applications for deferred examinations in Barnard courses.

September 20-21

Thursday and Friday. Deferred examinations for students absent from the May 1979 final examinations in Barnard courses. Deferred examinations for C, F, G, V, W, and other Columbia courses must be taken before the end of the semester.

September 20

Thursday. Last day for program filing and adding a course. 5:00 p.m.

October 12

Friday. Last day for Spring Term Senior Scholar Applications.

October 19

Friday. Last day for filing diploma name cards for the degree in January 1980.

October 23

Tuesday. Midterm date.

October 24

Wednesday. Award of October degrees.

November 5

Monday. Academic Holiday.

November 6

Tuesday. Election Day. Holiday.

November 8

Thursday. Required meetings for planning programs.

November 12-16

Monday through Friday. Undergraduate and Graduate Record Examinations for January graduates will be scheduled on one day during this week.

November 15

Thursday. Last day for dropping a course.

November 20

Tuesday. Last day for filing tentative Spring Term programs.

November 22-25

Thursday through Sunday. Thanksgiving holidays.

November 28

Wednesday. Last day for graduating seniors to submit work not completed in previous terms.

November 28-30

Wednesday through Friday. Major examinations for January graduates.

College Calendar 1979-1980

December 5

Wednesday. Last day for filing requests for pass-fail grades.

December 7-12

Friday through Wednesday. Optional reading period.

December 13

Thursday. Required reading day.

Last day for payment of bill for Spring Term.

Last day for refund of Spring Term deposit.

December 14

Friday. Midyear examinations begin.

December 21

Friday. Autumn Term ends.

Last day for submitting work for courses in which grades of INC were given in the Autumn Term 1978.

(Graduating seniors see November 28.)

December 22

Saturday, through January 20, 1980, Sunday. Winter recess. Residence halls closed.

SPRING TERM 1980

January 7

Monday. Last day for submitting to the Office of the Registrar work from the Autumn Term 1979 for removal of INC.

January 21

Monday. Classes begin 9 a.m. Language Placement Examinations.

January 21-22

Monday and Tuesday. Registration.

January 23

Wednesday. Award of January degrees.

January 25

Friday. Last day for filing applications for deferred examinations in Barnard courses.

February 4

Monday. Last day for program filing and adding a course. 5:00 p.m.

February 12-13

Tuesday and Wednesday. Deferred examinations for students absent from the December 1979 final examinations in Barnard courses. Deferred examinations for C, F, G, V, W, and other Columbia courses must be taken before the end of the semester.

February 22

Friday. Last day for filing diploma name cards for the degree in May 1980.

February 29

Friday. Last day for 1980-81 Senior Scholar Applications.

March 6

Thursday. Midterm date.

March 8-16

Saturday through Sunday. Spring holidays.

College Calendar 1979-1980

March 17-21

Monday through Friday. Undergraduate and Graduate Record Examinations for May and October graduates will be scheduled on one day during this week.

March 20

Thursday. Last day for dropping a course.

March 28

Friday. Last day for graduating seniors to submit work not completed in previous terms.

April 9-11

Wednesday through Friday. Major examinations for May and October graduates.

April 10

Thursday. Required meetings for planning programs.

April 18

Friday. Last day for filing applications for financial aid for 1980-81.

April 21

Monday. Last day for filing requests for pass-fail grades.

April 24

Thursday. Phi Beta Kappa-Honors Convocation.

April 25-30

Friday through Wednesday. Optional reading period.

April 29

Tuesday. Last day for filing tentative Autumn Term programs.

Last day for filing name cards for the degree in October 1980.

May 1

Thursday. Required reading day.

May 2

Friday. Final examinations begin.

May 9

Friday. Spring Term ends.

Last day for submitting work for courses in which grades of INC were given in Spring 1979. (Graduating seniors see March 28.)

May 11

Sunday. Baccalaureate Service.

May 12

Monday. Last day for payment of deposit for 1980-81.

May 14

Wednesday. Conferring of degrees.

May 23

Friday. Last day for submitting to the Office of the Registrar work from the Spring 1980 Term for removal of INC.

September 2-4

Tuesday through Thursday. Registration for Autumn Term.

September 4

Thursday. Classes begin 9 a.m.

Last day for filing applications for deferred examinations in Barnard courses.

II. Organization

TRUSTEES OF BARNARD COLLEGE

Chairman

Arthur G. Altschul

Vice Chairman

Helene L. (Mrs. Mark) Kaplan

Treasurer

Samuel R. Milbank

Helen (Mrs. Frank) Altschul, *Trustee Emerita*

Robert H. Ebert, M.D.

Eleanor (Mrs. John, Jr.) Elliott, *Trustee Emerita*

Ellen V. Futter

William T. Golden

Blanche (Mrs. Seymour) Graubard

Stephanie Wanger (Mrs. Frederick E., II) Guest

Robert L. Hoguet

Gedale B. Horowitz

Elizabeth (Mrs. Eliot) Janeway

Wallace S. Jones, *Trustee Emeritus*

Eleanor (Mrs. Eric) Larrabee

Jacquelyn Anderson Mattfeld

William J. McGill, *ex officio*

Helen (Mrs. Randall) McIntyre

Roger H. Morley

Frank Newman

Francis T. P. Plimpton

Mary Louise (Mrs. Ogden) Reid

Madeline Robinton (Mrs.)

Charlotte Hanley (Mrs. Nathan, Jr.) Scott

Carol (Mrs. Edgar) Stix

Iphigene (Mrs. Arthur H.) Sulzberger, *Trustee Emerita*

Barbara M. Watson

Dorothy (Mrs. Roy) Weinberger

FACULTY REPRESENTATIVES TO MEET WITH TRUSTEES

Professor Peter Juviler

Professor Barbara Stoler Miller

STUDENT REPRESENTATIVES TO MEET WITH TRUSTEES

Ellen Doherty

Randy Gottlieb

Secretary

Olga M. Hughes

THE FACULTY OF BARNARD COLLEGE

- Jacquelyn Anderson Mattfeld, 1976**, President of Barnard College
and Dean in the University
B.A., Goucher; Ph.D., Yale
- Charles S. Olton, 1977**, Vice President for Academic Affairs and Dean of the Faculty
B.A., Wesleyan; M.A., Ph.D., California
- Barbara S. Schmitter, 1957**, Vice President for Student Affairs and Dean of Studies
and Associate Professor of Psychology
A.B., Nebraska; M.A., Columbia
- Helene F. deAguilar, 1972**, Assistant Professor of Spanish
A.B., Barnard; M.A., New York University; Ph.D., Columbia
- Philip V. Ammirato, 1974**, Assistant Professor of Biological Sciences
B.A., City College of New York; Ph.D., Cornell
- Alice H. Amsden, 1977**, Assistant Professor of Economics
B.S., Cornell; Ph.D., London School of Economics
- Helen H. Bacon, 1961**, Professor of Greek and Latin
A.B., Ph.D., Bryn Mawr
- James M. Baker, 1977**, Assistant Professor of Music
B.A., M.A., Ph.D., Yale
- Peter D. Balsam, 1975**, Assistant Professor of Psychology
B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina.
- Bernard Barber, 1952**, Professor of Sociology
A.B., M.A., Ph.D., Harvard
- Victoria F. Barr, 1967**, Visiting Artist in Art History
B.F.A., Yale
- Annette K. Baxter, 1952**, Adolph S. and Effie Ochs Professor of History
A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown
- Alfred Bendixen, 1979**, Instructor in English
B.A., State University of New York at Binghamton; M.A., North Carolina
- Roberta Bernstein, 1978**, Assistant Professor of Art History
B.A., Massachusetts; M.A., M. Phil., Ph.D., Columbia
- Joan S. Birman, 1973**, Professor of Mathematics
A.B., Barnard; M.A., Columbia; Ph.D., New York University
- Jeffrey M. Blustein, 1974**, Assistant Professor of Philosophy
A.B., Minnesota; Ph.D., Harvard
- Todd Boli, 1977**, Instructor in Italian
B.A., Harvard; M.A., M.Phil., Columbia
- Vilma Bornemann, 1971**, Registrar and Associate in Spanish
A.B., Barnard; M.A., Columbia
- Anne Boyman, 1979**, Instructor in French
B.A., M.A., Toronto
- Brigitte L. Bradley, 1962**, Professor of German
A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia
- Lila Ghent Braine, 1974**, Professor of Psychology
B.A., M.A., Ph.D., McGill
- Joel P. Brereton, 1974**, Assistant Professor of Religion
B.A., Kenyon; M. Phil., Ph.D., Yale
- LeRoy C. Breunig, 1953**, Professor of French
A.B., DePauw; Ph.D., Cornell

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

Faculty

- Demetrios Caraley, 1961**, Professor of Political Science
A.B., Ph.D., Columbia
- Patricia Carpenter, 1961**, Professor of Music
A.B., California; Ph.D., Columbia
- Luz Castaños, 1976**, Associate in Theatre
A.B., M.A., Hunter
- Elizabeth Louise Caughran, 1956**, Associate in English
A.B., Russell Sage; M.A., Columbia
- John W. Chambers, 1972**, Assistant Professor of History
B.S., Temple; M.A., San Francisco State; Ph.D., Columbia
- Sally Chapman, 1975**, Assistant Professor of Chemistry
A.B., Smith; Ph.D., Yale
- Julia Chase, 1976**, Assistant Professor of Biological Sciences
B.S., Smith; Ph.D., Indiana
- Joy Chute, 1964**, Adjunct Professor of English
- Marcelo Coddou, 1975**, Associate Professor of Spanish
M.A., Chile; Ph.D., Madrid
- William A. Corpe, 1956**, Professor of Biology
A.B., M.A., Wisconsin; Ph.D., Pennsylvania State
- James Crapotta, 1975**, Assistant Professor of Spanish
B.A., Queens; M.A., Harvard
- Dennis G. Dalton, 1969**, Professor of Political Science
A.B., Rutgers; M.A., Chicago; Ph.D., London
- Elizabeth Dalton, 1965**, Professor of English
A.B., California; M.A., Ohio State; Ph.D., Columbia
- Flora S. Davidson, 1973**, Instructor in Political Science
A.B., Barnard; M.Phil., Columbia
- Majorie Housepian Dobkin, 1957-59; 1960**, Associate in English
A.B., Barnard; M.A., Columbia
- Hubert Doris, 1957**, Professor of Music
A.B., Harvard; M.A., Columbia
- Patricia L. Dudley, 1959**, Professor of Biology
A.B., M.A., Colorado; Ph.D., Washington
- Lois A. Ebin, 1969-76; 1978**, Associate Professor of English
A.B., Smith; M.A., Ph.D., Columbia
- Hester A. Eisenstein, 1970**, Coordinator of the Experimental College
A.B., Radcliffe; M.A., Ph.D., Yale
- Duncan K. Foley, 1977**, Professor of Economics
B.A. Swarthmore; Ph.D., Yale
- Helene Peet Foley, 1979**, Assistant Professor of Greek and Latin
B.A., Swarthmore; M.A.T., M.A., Yale; Ph.D., Harvard
- Richard M. Friedberg, 1968**, Professor of Physics
A.B., Harvard; M.A., Ph.D., Columbia
- Serge Gavronsky, 1960**, Professor of French
A.B., M.A., Ph.D., Columbia
- Renée Geen, 1956**, Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia
- Sandra Genter, 1961**, Assistant Professor of Dance
A.B., Wisconsin; M.A., Columbia
- Enrique A. Giordano, 1974**, Assistant Professor of Spanish
M.A., Ph.D., Pennsylvania
- Rebecca Goldstein, 1976**, Assistant Professor of Philosophy
A.B., Barnard; Ph.D., Princeton

- Daniel R. Grayson, 1976**, Assistant Professor of Mathematics
B.S., M.S., Chicago; Ph.D., M.I.T.
- Marjorie N. Greenberg, 1978**, Associate in Physical Education and Director of Athletics
B.S., Douglass; M.A., Columbia
- Tatiana Greene, 1946**, Professor of French
Candid. en Droit, Brussels; M.A., Ph.D., Columbia
- Richard F. Gustafson, 1965**, Professor of Russian
A.B., Yale; Ph.D., Columbia
- Elizabeth Hardwick, 1965**, Adjunct Professor of English
A.B., M.A., Kentucky
- Marilyn Harran, 1976**, Assistant Professor of Religion
B.A., Scripps; M.A., Ph.D., Stanford
- Giselle Harrington, 1972**, Associate in Education
A.B., Syracuse; M.A., Columbia
- Sylvia A. Hewlett, 1974**, Assistant Professor of Economics
B.A., M.A., Cambridge; Ph.D., London
- Toby Berger Holtz, 1971**, Lecturer in Geography
A.B., Barnard; M.A.T., Harvard; Ed.D., Columbia
- David C. Hoy, 1977**, Associate Professor of Philosophy
B.A., Ph.D., Yale
- Barry M. Jacobson, 1974**, Assistant Professor of Chemistry
B.A., Chicago; Ph.D., Harvard
- Kenneth H. Janes, 1961**, Professor of English and Director of Minor Latham Playhouse
- Peter H. Juviler, 1964**, Professor of Political Science
B.E., M.E., Yale; M.A., Ph.D., Columbia
- George W. Kelling, 1972**, Assistant Professor of Psychology
B.A., Ph.D., Colorado
- Clive S. Kessler, 1970-72, 1973**, Assistant Professor of Anthropology
B.A., Sydney; Ph.D., London
- Grace W. King, 1960**, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale
- Ruth M. Kivette, 1952**, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological Seminary
- Morton Klass, 1965**, Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia
- Maire J. Kurrik, 1968**, Associate Professor of English
A.B., Vassar; Ph.D., Harvard
- Sue Howard Larson, 1965**, Professor of Philosophy
A.B., Ph.D., Stanford
- Marina Ledkovsky, 1969**, Professor of Russian
Ph.D., Columbia
- Lydia H. Lenaghan, 1962**, Associate Professor of Greek and Latin
A.B., Barnard; M.A., Ph.D., Bryn Mawr
- Leslie Lessinger, 1977**, Assistant Professor of Chemistry
B.A., M.A., Ph.D., Harvard
- Darline G. Levy, 1973**, Assistant Professor of History
A.B., Barnard; Ph.D., Harvard
- Cynthia B. Lloyd, 1970**, Assistant Professor of Economics
A.B., Bryn Mawr; M.A., Ph.D., Columbia
- Maristella de Panizza Lorch, 1951**, Professor of Italian
Dott. in Lett. e. Filos, Rome

Faculty

- Anne W. Lowenthal, 1977**, Assistant Professor of Art History
A.B., Brown; M.A., Ph.D., Columbia
- Joseph L. Malone, 1967**, Professor of Linguistics
A.B., M.A., Ph.D., California
- Joseph Masheck, 1971**, Adjunct Assistant Professor of Art History
A.B., A.M., Ph.D., Columbia
- Edith Mason, 1956**, Associate Professor of Physical Education
B.S., Winthrop; M.S., Louisiana State
- Robert A. McCaughey, 1969**, Associate Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard
- John Meskill, 1960**, Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia
- Deborah D. Milenkovitch, 1965**, Professor of Economics
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968**, Professor of Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
- Joann Ryan Morse, 1957**, Professor of English
A.B. Vassar; M.A., Yale
- Mary Mothersill, 1963**, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- Richard A. Norman, 1954**, Professor of English
A.B., George Washington; M.A., Ph.D., Columbia
- Cynthia Novack, 1978**, Associate in Dance
B.A., California
- Barbara Novak, 1958**, Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- David G. Nowak, 1979**, Instructor in French
B.A., M.A., Ph.D., Wisconsin
- Dorothea Nyberg, 1968**, Associate Professor of Art History
A.B., Toronto; M.A., Ph.D., New York University
- Elaine H. Pagels, 1970**, Professor of Religion
A.B., M.A., Stanford; Ph.D., Harvard
- Robert B. Palmer, 1967**, Librarian
A.B., Kenyon; M.A., Middlebury; M.S., Simmons
- Remington P. Patterson, 1955**, Professor of English
A.B., M.A., Ph.D., Yale
- Marion R. Phillips, 1945-55; 1958**, Professor of Physical Education
A.B., Hunter; M.A., Columbia
- Marie-Claire Picher, 1979**, Instructor in French
B.A., Trinity; M.A., Middlebury
- Richard M. Pious, 1973**, Assistant Professor of Political Science
B.A., Colby; Ph.D., Columbia
- Charles Potter, 1973**, Lecturer in French
A.B., M.A., Ph.D., Columbia
- Anne Lake Prescott, 1959-62; 1963**, Associate Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Martin Purvis, 1977**, Assistant Professor of Physics
B.A., Yale; Ph.D., Massachusetts
- Nicholas Rango, 1978**, Samuel R. Milbank Assistant Professor of Health and Society
B.S., St. Louis; M.D., Northwestern
- Carol Raye, 1973**, Assistant Professor of Psychology
B.S., Illinois; Ph.D., State University of New York

- Inez Smith Reid, 1969-70; 1971**, Associate Professor of Political Science
A.B., Tufts; LL.B., Yale; M.A., California; Ph.D., Columbia
- David A. Robertson, Jr., 1940**, Millicent Carey McIntosh Professor of English
A.B., M.A., Ph.D., Princeton
- Jeanette Schlottman Roosevelt, 1951-58; 1962**, Professor of Dance
B.S., M.A., Texas Women's University
- Jane H. Rosenthal, 1952-55; 1971**, Assistant Professor of Art History
A.B., Douglass; Ph.D., Columbia
- Marian L. Rosenwasser, 1975**, Instructor in Physical Education
B.S., City College of New York; M.S., Massachusetts
- Abraham Rosman, 1966**, Professor of Anthropology
A.B., City University of New York; Ph.D., Yale
- Perla Rozencvaig, 1977**, Instructor in Spanish
B.A., M.A., Columbia
- Paula G. Rubel, 1965**, Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- Susan R. Sacks, 1971**, Assistant Professor of Education and Psychology
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952**, Associate Professor of German
M.A., Columbia; Ph.D., Vienna, Columbia
- Patricia Samuel, 1977**, Associate in Physical Education
B.S., City College of New York
- John E. Sanders, 1969**, Professor of Geology
A.B., Ohio Wesleyan; Ph.D., Yale
- Anatol K. Saponow, 1966**, Associate in Russian
Russian Gymnasium, Belgrade
- Marianna Greene Saponow, 1967**, Associate in Russian
Russian Gymnasium, Munich
- Frances Fuchs Schachter, 1972**, Assistant Professor of Psychology
A.B., Barnard; Ph.D., Rochester
- Flora H. Schiminovich, 1977**, Instructor in Spanish
B.A., City College; M.A., Hunter
- Peter Schubert, 1970**, Associate in Music
A.B., M.A., Columbia
- Bernice Segal, 1958**, Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia
- Mirella d'Ambrosio de Servodidio, 1964**, Professor of Spanish
A.B., Barnard; M.A., Ph.D., Columbia
- Maurice Z. Shroder, 1965**, Professor of French
B.S., Northwestern; M.A., Ph.D., Harvard
- Marvin Shulman, 1968-69; 1975**, Associate in German
B.A., Coe; M.A., Columbia
- Rae Silver, 1976**, Associate Professor of Psychology
B.A., McGill; M.A., CUNY; Ph.D., Rutgers
- Daniel C. Snell, 1978**, Assistant Professor of Religion
B.A., Stanford; M.A., M.Phil., Ph.D., Yale
- Janet Soares, 1968**, Associate in Dance
B.S., Juilliard; M.A., Columbia
- Natalie Sonevytsky, 1959**, Reference Librarian
A.B., New Rochelle; M.S., Columbia
- Quandra P. Stadler, 1970**, Associate in English
A.B., Antioch

Faculty

- Catharine R. Stimpson, 1970**, Associate Professor of English
A.B., Bryn Mawr; B.A., Cambridge; Ph.D., Columbia
- Sandra Stingle, 1967**, Assistant Professor of Psychology
A.B., Barnard; Ph.D., Columbia
- Howard M. Teichmann, 1946**, Adjunct Professor of English
A.B., Wisconsin
- Patricia Terry, 1958**, Adjunct Associate Professor of French
A.B., Wellesley; M.A., Ph.D., Columbia
- Janice Farrar Thaddeus, 1956**, Assistant Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Zoya A. Trifunovich, 1959**, Associate in Russian
B.S., M.A., Columbia
- Margarita Ucelay, 1943**, Professor of Spanish
Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia
- Barry Ulanov, 1951**, Professor of English
A.B., Ph.D., Columbia; Litt.D., Villanova
- Joan E. Vincent, 1968**, Professor of Anthropology
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- Frederick E. Warburton, 1963**, Associate Professor of Biology
B.Sc., M.Sc., Ph.D., McGill
- Marcia L. Welles, 1970**, Associate Professor of Spanish
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Suzanne F. Wemple, 1966**, Associate Professor of History
A.B., California; M.L.S., Ph.D., Columbia
- James C. Wendt, 1975**, Assistant Professor of Sociology
B.S., M.S., Michigan; M.A., Ph.D., California
- Katherine E. Wilcox, 1971**, Associate in Education
A.B., City College of New York
- Chilton Williamson, 1942**, Professor of History
A.B., M.A., Ph.D., Columbia
- Richard Wojcik, 1976**, Assistant Professor of Linguistics
B.A., M.A., Ph.D., Ohio State
- Kathryn B. Yatrakis, 1977**, Instructor in Urban Studies and Political Science
B.A., Cedar Crest; M.A., New York University; M.Phil., Columbia
- Viviana A. Zelizer, 1978**, Assistant Professor of Sociology
B.A., Rutgers; M.A., M.Phil., Ph.D., Columbia
- Leonard Zabler, 1955**, Professor of Geography
B.S., M.S., Washington State; Ph.D., Columbia

FACULTY EMERITI

- Helen R. Downes, 1933-1960**, Professor Emeritus of Chemistry
Ph.D.
- Amelia A. de del Rio, 1930-1962**, Professor Emeritus of Spanish
Ph.D.
- Milicent C. McIntosh, 1947-1962**, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.
- Thomas P. Peardon, 1923-1965**, Professor Emeritus of Political Science
Ph.D.
- Lucyle Hook, 1948-1967**, Professor Emeritus of English
Ph.D.
- Eugenio Florit, 1945-1969**, Professor Emeritus of Spanish
D. en D.
- Virginia D. Harrington, 1942-1969**, Professor Emeritus of History
Ph.D.
- Jean T. Palmer, 1946-1969**, General Secretary Emeritus
A.B.
- Henry A. Boorse, 1937-1970**, Professor Emeritus of Physics and Dean Emeritus of the Faculty
Ph.D.
- Julius S. Held, 1936-1970**, Professor Emeritus of Art History
Ph.D.
- Mirra Komarovsky, 1934-1970**, Professor Emeritus of Sociology
Ph.D.
- Emma Dietz Stecher, 1945-1971**, Professor Emeritus of Chemistry
Ph.D.
- Theodor H. Gaster, 1966-1972**, Professor Emeritus of Religion
Ph.D., D.D., L.H.D., Litt.D.
- Eleanor Rosenberg, 1953-1973**, Professor Emeritus of English
Ph.D.
- Raymond J. Saulnier, 1938-1973**, Professor Emeritus of Economics
Ph.D., LL.D.
- George Woodbridge, 1960-1973**, Professor Emeritus of History
Ph.D.
- Marion Hamilton Gillim, 1952-1974**, Professor Emeritus of Economics
Ph.D.
- Gladys Meyer, 1948-1974**, Professor Emeritus of Sociology
Ph.D.
- Basil Rauch, 1941-1974**, Professor Emeritus of History
Ph.D.
- John Kouwenhoven, 1946-1975**, Professor Emeritus of English
Ph.D.
- Richard Youtz, 1937-1975**, Professor Emeritus of Psychology
Ph.D.
- Joseph Gerard Brennan, 1947-1976**, Professor Emeritus of Philosophy
Ph.D.
- Helen Phelps Bailey, 1933-1977**, Professor Emeritus of French
Ph.D.
- Donald D. Ritchie, 1948-1979**, Professor Emeritus of Biology
Ph.D.
- Eleanor M. Tilton, 1950-1979**, Professor Emeritus of English
Ph.D.

Other Officers of Instruction

VISITING FACULTY

- Donald E. Hutchings, 1972, Adjunct Assistant Professor of Psychology
A.B., Lake Forest; M.A., Ph.D., Chicago
- Brian O'Doherty, 1970, Adjunct Professor of Art History
M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard
- Beverly Moss Spatt, 1971, Adjunct Associate Professor of Geography
A.B., Pembroke; M.A., Ph.D., New York University

OTHER OFFICERS OF INSTRUCTION

- Regina Ayre, 1972, Lecturer in German
B.A., Sir George Williams; M.A., Ph.D., Columbia
- Jean T. D. Bandler, 1978, Lecturer in Sociology
B.A., Swarthmore; D.S.W., Columbia
- Dorothy M. Bhedda, 1975, Associate (Part-time) in Chemistry
A.B., Barnard
- Constance T. Colby, 1972, Instructor (Part-time) in English
B.A., M.A., Michigan
- Joanna L. Cole, 1973, Instructor (Part-time) in English
B.A., Bryn Mawr; M.A., Columbia
- Marjorie S. David, 1979, Instructor (Part-time) in English
A.B., Radcliffe; M.A., M.Phil., Columbia
- Milton Duke, 1978, Instructor (Part-time) in Drama
- Eva Lynn Gans, 1978, Associate (Part-time) in Chemistry
A.B., Barnard
- Julie Goodman, 1978, Associate (Part-time) in Chemistry
A.B., Barnard
- Barbara B. Goodstein, 1967, Associate (Part-time) in Chemistry
A.B., Barnard
- Dorothy T. Gregory, 1977, Instructor (Part-time) in Modern Greek
B.A., M.A., M.Phil., Columbia
- Danielle Haase-Dubosc, 1962, Lecturer at Reid Hall
A.B., Barnard; M.A., Ph.D., Columbia
- Olympia T. Jebijian, 1969, Associate (Part-time) in Chemistry
B.A., M.S., American University of Beirut
- Shirley Kaplan, 1977, Associate (Part-time) in Drama-English
A.A.S., Briarcliff; Diploma, Academie de la Grande Chaumiere
- Micheline Levowitz, 1977, Lecturer in French
B.A., Hunter; M.A., Queens; Ph.D., CUNY
- Lynn Malis, 1977, Instructor (Part-time) in French
B.A., Boston; M.A., Columbia
- Lucille E. Palmer, 1975, Associate (Part-time) in Chemistry
B.S., Louisiana State; M.S., Brooklyn Polytech
- Dennis B. Parichy, 1969, Instructor (Part-time) in Drama
B.S., Northwestern
- I. Mark Paris, 1975, Instructor (Part-time) in French
B.A., Johns Hopkins; M.A., M. Phil., Columbia
- Milton Resnick, 1972, Visiting Artist in Art History
- Adelaide M. Russo, 1977, Instructor (Part-time) in French
A.B., Sweet Briar, M.A., M. Phil., Columbia
- John F. Santore, 1977, Assistant Professor (Part-time) of History
A.B., M.A., Temple; Ph.D., Columbia

Other Officers of Instruction

Celeste M. Schenck, 1979, Instructor (Part-time) in English
A.B., Princeton

Florian C. Stuber, 1979, Instructor (Part-time) in English
A.B., Columbia

Ruth Sussman, 1975, Instructor (Part-time) in French
A.B., Barnard; M.A., Johns Hopkins; M. Phil., Columbia

Timea Szell, 1979, Instructor (Part-time) in English
A.B., Barnard; M.A., Columbia

Shulamith Stromer Talansky, 1978, Instructor (Part-time) in English
A.B., Barnard; B.H.L., Jewish Theological Seminary; M.A., Yale



Officers of Administration

OFFICERS OF ADMINISTRATION

Jacquelyn Anderson Mattfeld, Ph.D., LL.D., President of Barnard College and
Dean in the University

Charles S. Olton, Ph.D., Vice President for Academic Affairs and Dean of the Faculty and Associate
Professor of History

John R. McBride, C.P.A., Vice President for Finance and Administration

Barbara S. Schmitter, M.A., Vice President for Student Affairs and Dean of Studies and Associate
Professor of Psychology

Doris W. Critz, B.A., Vice President for Public Affairs

Office of the President

Joanne Blauer, J.D., Deputy Assistant to the President

Jean Norton, Executive Assistant

Olga M. Hughes, A.B., Secretary to the Board of Trustees

Office of the Dean of the Faculty

Elizabeth Minnich, Ph.D., Associate Dean of the Faculty

Office of Vice President for Finance and Administration

Helen Vanides, Director of Budget and Planning

Lewis Wyman, B.A., Research and Planning Assistant

Office of the Dean of Studies

Marjorie H. Dobkin, M.A., Associate Dean of Studies

Doris L. Campbell, A.B., Director of Transfer Services

Susan Cohn, Ph.D., Assistant to the Dean of Studies

Julie Marsteller, A.B., Adviser to the Handicapped

Luz Castaños, M.A., Class Adviser

Serge Gavronsky, Ph.D., Foreign Student Adviser

Giselle Harrington, M.A., Class Adviser

Toby Berger Holtz, Ed.D., Class Adviser

Grace King, Ph.D., Class Adviser

Anya Luchow, M.A., Class Adviser

Charles Potter, Ph.D., Class Adviser

Marjorie Croes-Silverman, M.Ed., Class Adviser

Quandra Stadler, B.A., Class Adviser

Sandra Stingle, Ph.D., Class Adviser

Katherine E. Wilcox, B.A., Class Adviser

Richard Youtz, Ph.D., Class Adviser

Esther Rowland, M.A., Pre-professional Adviser

Nadine Johnson, B.A., Director of HEOP

Office of Admissions

R. Christine Royer, M.A., Director

Margaret Dykes Dayton, M.A., Associate Director

Kathie Plourde, B.A., Associate Director

Office of Alumnae Affairs

Irma Moore, A.B., Director

Anne Winters Franzen, A.B., Associate Director

Office of Buildings and Grounds

Robert T. Devine, Director
James Reiser, Manager of Plant Maintenance
Martin Grumet, Manager of Custodial Services
Margaret V. O'Shea, Manager of Housekeeping
Salvadore R. Delgado, Assistant Manager of Housekeeping

Business Office

Brett Combs, B.A., Controller
Linda M. McCann, B.S., Bursar
MaryAnn Lanzetta, M.B.A., Assistant Controller
Bella Ben-Oni, Assistant to the Controller
Barbara Robbins, Accountant

Office of Career Services

Martha Green, M.S., Director
Kim Healey, B.A., Associate Director
Kathryn Collins, M.Ed., Supervisor, Internship Program

Office of College Activities

Joseph Tolliver, M.S., Director

Development Office

Charles Edwards, B.A., Director
Rose Low, A.A., Associate Director
James Crawford, B.S., Director of Grants
Marsha Friedman, B.A., Director of the Barnard Fund
Regina M. Kemp, A.B., Information Officer
Jeannette Richardson, Financial Officer

Financial Aid

Susan Broadbent, M.A.T., Director
Suzanne Guard, B.A., Associate Director

Health Services

Harriette R. Mogul, M.D., Director
Audrey-Jean Sheehy, M.D., Associate Director
Marjorie A. Boeck, M.D., Ph.D., Staff Physician
Antonio Calanog, M.D., Consulting Gynecologist
Ronald A. Grecco, M.D., Consulting Gynecologist
Camillo L. Gugliucci, M.D., Consulting Gynecologist
Herbert A. Hochman, M.D., Consulting Dermatologist
Zira Defries, M.D., College Psychiatrist
Barbara Gibbs, M.D., Consulting Psychiatrist
Denise Saks, J.S.D., M.A., M.S., Counselor
Nancy Wolf, M.S.W., Counselor
Lela Anderson, R.N., Head Nurse
Ileane Lubell, R.N., Nurse
Joan Swenson, R.N., Nurse

Language Laboratory

Ersi L. Breunig, Director

Library

Robert B. Palmer, M.A., M.S., Librarian
Patricia K. Ballou, A.B., B.S., Technical Services Librarian and Archivist
Elizabeth M. Corbett, M.S., Circulation Librarian

Officers of Administration

Tatiana Keis, M.S., Reserve Room Librarian
Stephanie M. Krstulovic, Technical Services Librarian
Catherine Geddis-Meakin, M.S., Audio-Visual Coordinator
Natalie Sonevytsky, M.S., Reference Librarian
Mary Ellen Tucker, M.S., Acquisitions Librarian

Office Services

Winifred Price, Director
Myrtle Tate, B.S., Manager

Personnel Office

Seth N. Baker, B.A., Director
Amy Diamond, B.A., Assistant Director
Theresa Popovich, B.S., Assistant Director

Office of Public Relations

Sallie Y. Slate, B.S., Director
Siew Thye Stinson, B.A., Associate Director

Office of Purchases and Stores

Mary Bane, Director

Office of the Registrar

Vilma M. Bornemann, M.A., Registrar
Virginia Shaw, A.B., Associate Registrar and Secretary to the Faculty

Office of Residential Life

Ione G.W. Gatch, B.A., Director
Rosemarie Dackerman, M.Ed., Resident Director, Residence Halls
Sevrine Barrie, M.A., Resident Director, Plimpton Hall
Sally Moore, M.A., Resident Director, 600, 616, 620

Office of Safety and Security

Raymond E. Boylan, Director
Priscilla Wolf, M.A., Assistant Director

Women's Center

Jane S. Gould, M.A., Director



III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A. P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

BARNARD TODAY

In contrast to the pioneer days, Barnard today has a teaching staff of almost 200 men and women: outstanding scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,275; since 1893 Columbia has awarded its degree to 21,501 Barnard students. The original gifts of support have expanded to the current endowment funds of \$22,082,972.

An agreement adopted by the Barnard and the Columbia Boards of Trustees in 1973 calls for increased cooperation without assimilation between the two institutions. While Barnard maintains its identity as an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, it shares the resources of the University. Barnard students have open access to Columbia courses and, as an affiliate of the University, Barnard shares faculty, libraries and facilities with Columbia.

THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar-teachers honor the enduring values of their profession.

An Introduction to the College

THE CURRICULUM

Specific requirements for the degree are outlined on pages 30-32. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of the college work. Twenty-five departments offer major programs and seven interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.

An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912.

SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

Acknowledging the changing climate for women, The Barnard Women's Center exists to offer a wide range of programs and services, both academic and non-academic. These include an extensive resource collection of books, articles, and periodicals on women's issues; an annual academic conference examining the impact of feminism on traditional scholarship, as well as speakers, films, and poetry readings. Governed by an Executive Committee of students, faculty, administrators and alumnae, the Center strives to provide continuity and links between students and alumnae and between the College and women on and off the campus.

THE CAMPUS

The campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The College Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. The library has about 150,000 volumes in an open shelf arrangement on three floors. This collection of carefully selected books is designed to cover curriculum requirements as well as to provide opportunities for independent work in many fields. A collection of approximately 5,360 music and spoken records, a large selection of periodicals and journals, as well as a small browsing collection of popular books and records, supplement and strengthen the book collection. There are ample listening facilities for records and an audio-visual studio and control room for the recording of audio-visual tapes and the use of other equipment. The reading areas contain a number of individual study carrels, many of which overlook a lawn surrounded by small trees and shrubs. Barnard students also have access to the University's Butler Library of some four million volumes, one million manuscripts and fifty thousand periodical listings. The other twenty-nine libraries of the University are also available for additional research.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a

An Introduction to the College

lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices; classrooms; a greenhouse; and the Minor Latham Playhouse, a small well-equipped modern theater. The Language Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including: 600, 616, and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six girls each; and Plimpton Hall, completed in 1968, which houses 280 students in apartment-style units.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. While one-third of the students have families within commuting distance, others come from nearly every state and some twenty-five foreign countries. The students represent diversity in background and training; and a mingling of economic, regional and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and preprofessional and departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. During the past eight years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy decisions in the areas of curriculum, housing, financial aid, orientation, and the library.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for nonacademic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

The Recreation and Athletic Association sponsors many activities which include intramurals, sports week and special events. The intercollegiate athletic program, governed by the Council on Intercollegiate Athletics (CIA), sponsors varsity teams in Basketball, Crew, Fencing, Swimming, Tennis and Volleyball. Varsity teams enjoy regular competitive schedules and expert coaching. Opportunities are provided to advance to Ivy League, State, Regional and National championships. Contact Marjorie Greenberg, Director of Athletics, for further information.

NEW YORK

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan resources.

IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in terms of her past performance, her individual qualities of mind and spirit, and her potential for successfully completing four years of study at Barnard.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Barnard College admits students without regard to race, color, creed, national origin or handicap to all the rights, privileges, programs, and activities generally accorded or made available to students at the College; and the College does not discriminate on the basis of race, color, creed, national origin or handicap in administration of its educational policies, admissions policies, financial aid and loan programs, recreational programs and other College administered programs.

Students who can visit the college for an interview should plan to do so in the fall of their senior year, or in the late spring of the junior year; others may arrange interviews with Barnard Area Representatives whose names are listed on pages 228 to 230.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 15 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year in high school. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$25 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September and, in limited numbers, in January. They must be at least fifteen years of age, and should present the following credentials:

Evidence of good character, which is obtained from reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.

Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Health Services.

Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. The latter must be taken in (1) English composition or literature, (2) a foreign language, and (3) history, science, or mathematics. Requests for exceptions in the Achievement Test requirements must be made directly to the Director of Admissions. These examinations should be taken in the senior year, but not later than the January

administration. Achievement Tests in one-year subjects or those completed in the junior year may be taken in the junior year. It is the student's responsibility to direct the College Entrance Board to send official test scores to the Office of Admissions.

EARLY DECISION PLAN

With the other members of the Conference of Liberal Arts Colleges for Women, Barnard has agreed to take action in the fall on applications of well-qualified seniors who have selected their first-choice college. Although they may initiate applications to other colleges, candidates under the Early Decision Plan are expected to make only one Early Decision application. They agree if admitted under Early Decision to withdraw all other applications. Students wishing to apply under the plan should request Early Decision application papers.

First-choice candidates for Barnard admission should send their applications to the Office of Admissions, Barnard College, New York, N.Y. 10027, before November 15. Applications must be accompanied by the \$25 application fee. Decisions on admission and financial aid will be mailed no later than December 15. Any student on whose application an unfavorable decision has been made, or on whose application decision has been postponed until the customary date in the spring, will also be notified by that date. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Achievement Tests taken in her junior year in English composition or literature, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$300, if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year and the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1978-79.

Scholastic Aptitude Test

October 13, 1979 (California, Florida, New York, and Texas only)

March 22, 1980

Scholastic Aptitude and Achievement Tests

November 3, 1979

December 1, 1979

January 26, 1980

May 3, 1980

June 7, 1980

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is approximately

Admission

five weeks before the date of the examination. A penalty fee will be charged for applications received later than the normal closing date.

No applications received in Princeton later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee. Please refer to the College Board Handbook for information about deadlines and fees.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission.

ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshman year, at the discretion of the departments concerned.

Credit for advanced placement courses is dependent on recommendation by the appropriate Barnard department. Regulations governing mathematics credit are described in the statement of that department. Credit can be given in other subjects for scores of 4 and 5. Up to four semester course credits may be awarded to the entering student.

ADMISSION OF TRANSFER STUDENTS

Barnard welcomes transfer students and each year accepts between one hundred fifty and two hundred to the sophomore and junior classes. Application for acceptance with advanced standing should be submitted before May 15 for admission in September and before November 15 for admission in January.

Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 31.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. In some cases, credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard.

Acceptance is subject to receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized college representative, a satisfactory final transcript, and the required health reports. If these credentials are not received, the student must postpone registration until after classes begin. There is an additional fee for lateness.

Students who are degree candidates at other colleges may apply for permission to enroll for one or two semesters at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to

understand and solve mathematical problems.) Freshman candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or January) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

In some cases, credit for study at foreign institutions cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may assist them with their plans.

READMISSION

Students who have not been registered for more than two consecutive terms must make application for readmission to the Director of Admissions by November 15 for the Spring Term and by May 15 for the Autumn Term. Completed applications include all required credentials (medical reports, transcripts, recommendations) and a nonrefundable fee of \$25.



V. Degree Requirements

REQUIREMENTS FOR THE A.B. DEGREE

At least 35 academic courses must be completed. Specific requirements include:

I. Basic

English A. (Foreign students please refer to page 29.)

One science (two semesters), with laboratory. See departmental statements (Biological Sciences, Chemistry, Geography, Geology, Physics, Psychology) for specific courses which fulfill the requirement. With special permission, two sciences may be combined.

Foreign language. Competence in an ancient or modern foreign language. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of such courses as are designated by the appropriate language department. For languages not offered at Barnard, the student should consult the Chairman of the Language and Literature Committee.

II. General

Completion of six semester courses outside the major department, selected from the categories listed below. No more than two in any single category may be counted.

1. Art history; music; Dance 65, 66
2. Literature (not in translation)
3. Philosophy; religion (other than history of religion courses); Oriental Humanities; Readings in the Humanities; Humanities C1001-C1002
4. History; Oriental Civilization; history of religion courses (Religion V3301, V3302, W4303, W4304, V3402, V3404, V3406, V3407, V3409, V3410, V3500, V3408, V3503, V3600, V3607)
5. Mathematics
6. Anthropology; economics; geography; political science; linguistics; sociology

III. Major

A major field, elected in the second term of the sophomore year, will consist of at least eight courses, as prescribed by the department. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

A student with a single major may, in addition to the major, designate a minor field by electing no fewer than five approved courses from another department in consultation with the chairperson of that department. Two of these courses may be counted toward the General Requirement in accordance with the rules described above.

IV. Physical Education

Four terms required. Two terms in the freshman year and two additional terms. Physical Education is not counted in the 35 courses required for the degree.

V. Length of Residence

Students are expected to be registered for full-time work for four years. Barnard residence requirements for transfer students are described on page 31 of this announcement. Permission to complete work for the degree while registered *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

SENIOR SCHOLAR PROGRAM

The Senior Scholar Program allows a qualified student to undertake a single project in the senior year, or in one semester of the senior year, normally the second. The program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. A student with such qualifications should consult the Senior Class Adviser at the beginning of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree. See calendar for application dates.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quality of work is indicated by the following grades: A or A – , excellent; B + , B, B – , good; C + , C, C – , fair; D, poor; F, failure; and P, passed without a specific grade.

A course is marked I (incomplete) to indicate postponement of required work and X (absent) to indicate absence from the final examination. Failure to complete such work according to terms set by the Faculty will result in marks of NC (no credit) if the completed portion of the work is passing, or F if prior work is unsatisfactory.

The entry Y signifies that the grade on completion of the second term will apply to the first term as well.

WF signifies withdrawal from a course without formal notification to the Registrar, and is considered equivalent to F.

Pass-fail grades are recorded for all students in some courses at the individual request of the student in courses for which letter-grades are normally assigned. Requests for P grades must be filed with the Registrar each term by the date set by the Faculty (see College Calendar). The following regulations apply to all students.

At least 29 of the 35 courses required for graduation must be assigned letter-grades, including all courses for the major (and minor).

Grades of P are not included in the grade point average. A grade of F received under a P/F option is computed as 0 in the grade point average.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

In the computation of grade averages, marks for courses are awarded points on the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. For every plus or minus unit an adjustment of + 0.3 or – 0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for 35 or more courses completed with grades of D or above. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.00 or above are permitted to remain in college. Continuance in college of students whose work falls below this average depends upon promise of future achievement and is determined by the Committee on Programs and Academic Standing.

Courses which receive marks of D may not be counted toward the minimum number of courses required in the major field, although they are included in the average for the major.

REQUIREMENTS FOR TRANSFER STUDENTS

Transfer work is evaluated after a complete official transcript is received in the Office of the Registrar. Transfer students are asked to submit catalogues and course descriptions. Credit cannot be granted for courses with grades lower than C –

Credit for approved transfer work at accredited institutions is allowed in proportion to the degree requirements of the student's previous college and is converted to an equivalent proportion of the thirty-five courses required for Barnard graduation. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until a second term has been satisfactorily completed. Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations described in the section on Summer Study.

To receive a Barnard degree, a transfer student must attend Barnard for at least four regular academic terms and must complete at least eighteen courses while registered in the college, including no fewer than six courses in the major field (and three in the minor field, if elected). Additional major (and minor) courses as well as basic and general requirements may be satisfied by transfer courses. Exemption

Degree Requirements

from the foreign language requirement may be attained on the basis of College Entrance Examination scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete satisfactorily one of the designated courses in this catalogue. (See the statement under the appropriate language department for further details.)

General college honors are awarded to transfer students when both over-all and Barnard averages meet the required academic standards.



VI. General Information

REGISTRATION

Class advisers are appointed from the teaching staff and may be consulted by students with individual questions or for information about the various services and activities of the college. Freshmen and sophomores plan their programs in conference with class advisers and obtain their signatures on all official forms and documents. Major advisers are appointed in each department to aid juniors and seniors in planning their general programs and in completing the requirements of their particular fields.

Instructions for registration and program-filing are placed in all student mailboxes before the beginning of the term. Failure to register or to file a program at the assigned times will entail the payment of additional and progressively greater fees. Permission to register may be refused to students who do not observe published deadlines.

No student may be registered simultaneously in any other school or college without the consent of the Dean of Studies.

LANGUAGE PLACEMENT EXAMINATIONS

Fulfillment of the foreign language requirement or placement in a language course may be achieved on the basis of College Entrance Examination Board scores or previous college courses or both. Examinations are given before registration for students who have studied foreign languages but who cannot be given placement in the above ways. Any student who wishes to take a placement examination may do so, and she must accept the placement she receives.

ACADEMIC DISCIPLINE

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Trustees in appropriate faculty, administrative, and tripartite bodies.

Each student who registers at Barnard agrees to maintain an honor code which provides that she will not ask for, give, or receive help in examinations or quizzes, or present oral or written work that is not entirely her own. Library regulations and independent study courses are also governed by the code.

The honor system is enforced by an Honor Board which has a membership of students and faculty members. A fuller explanation of the system may be found in *A Guide to Barnard*.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from the College or from classes may cause a student to forfeit the right to complete course work or take final examinations.

All absences due to illness must be reported to the Office of Health Services. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college with an academic calendar which does not provide for religious holidays. In the scheduling of general college meetings, examinations, and deadlines, every effort is made to avoid the dates of major religious observances. Students who cannot attend classes on such days may find it necessary to make individual arrangements with instructors to fulfill course requirements.

WITHDRAWAL WITHIN A TERM

A student not subject to discipline for infraction of College rules may withdraw from the College during the term by giving notice of intention to withdraw in writing on forms obtained from the Office of the Dean of Studies. Signature by a parent or guardian is required. Failure to submit the proper notification

General Information

on the part of a student who withdraws while College is in session may result in a report of WF for the term's work. For information on refund of tuition, see page 199.

WITHDRAWAL AT END OF TERM

A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies. A student in good health who leaves with her record complete and who is in good standing may re-register within one year without reapplying through the Office of Admissions. If she confirms her intention to return by writing to the Dean's office by April 1 for the Autumn Term or November 15 for the Spring Term, no readmission fee will be charged. After an absence of one year a student must file readmission forms through the Office of Admissions and pay readmission fees.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen—those who have completed fewer than 7 courses

Sophomores—those who have completed 7 courses

Juniors—those who have completed 15 courses

Seniors—those who have completed 25 courses

Unclassified—those who have not yet been assigned definite credit on transfer

Nonmatriculated—those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

PROGRAM-FILING

Programs are filed with the Registrar on designated dates in each term (see College Calendar). After these dates, new courses may not be added, and other changes are subject to the following regulations:

Section Changes. Sections may not be changed except at the written request of the instructor.

Dropping Courses. A course may be dropped with the written approval of the class adviser (for freshmen and sophomores) or the major adviser (for juniors and seniors). Courses which are officially dropped before a fixed date (see College Calendar) are not recorded on permanent transcripts. After that date, a course may be dropped only with approval of the Committee on Programs and Academic Standing, and it will appear on the transcript followed by W (withdrawal).

Each program or program change requires an adviser's written approval.

COLUMBIA UNIVERSITY COURSES

Many courses offered in the graduate and professional schools of the university are open to qualified undergraduate students. To insure credit toward the Barnard degree, juniors and seniors who elect such courses which are not in their major field should consult their class advisers. The numbers of such courses are prefixed by A, B, E, G, J, K, L, M, Q, R, T, U, W Education, W4000 and above, and Z.

All Teachers College courses not cross-listed as part of a Barnard offering are subject to approval of the Committee on Programs and Academic Standing and to payment of additional fees.

Normally, only courses which are credited in their respective catalogues with 3 or more points may be used to satisfy the requirements for the degree. Exceptions to this regulation include applied music activities which carry partial course credit and which may involve extra charges, and approved laboratory units in science courses.

SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms at Barnard. Summer courses may be credited by the approval of the Committee on Programs and Academic Standing for purposes of accelerating or of making up deficiencies in numbers of courses or in requirements. No more than four summer courses may be taken for credit toward the degree.

Requests for summer study credit may require the written approval of the chairman of the appropriate Barnard department. Endorsement may be secured in advance and filed with the Registrar. Students are responsible for insuring that official reports of summer work grades are submitted to the Registrar as soon as possible in the ensuing autumn term. The following regulations apply to all summer work:

Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are not normally credited.

Laboratory units are not credited for summer science courses.

No course with a grade lower than C will be credited toward the degree.

Grades will not be included in the Barnard average.

FINAL EXAMINATIONS

Final examinations are scheduled at the end of each semester (see College Calendar).

Deferred examinations for Barnard courses, given in September and February, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence for reasons of health should be reported to the Office of Health Services in person or by telephone on the day of the examination.

Examinations missed in December are to be taken the following February or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Registrar by designated dates (see College Calendar). A payment of \$10 for each examination must accompany the application. A senior who missed an examination at the end of her last term may apply for an early deferred examination.

Arrangements for deferred examinations in Columbia University courses must be made by the student with the instructors, and should be completed during the term following registration for the course.

EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to those absent from previously announced tests. An instructor who is willing to give a make-up test may request a report of illness from the College Physician or acceptable evidence of other extenuating circumstances.

READING PERIOD

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period.

General Information

TRANSCRIPTS

Reports for the previous term are sent to all students in February and June without charge. Unofficial copies of transcripts may be obtained from the Registrar upon the written request of the student. Official copies of transcripts bearing the seal of the College can be sent only to academic institutions, business organizations, and government offices, at the request of the student. A fee of \$2 is charged for each transcript ordered.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in May, October, and January. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time (see College Calendar). Graduation ceremonies are held in May.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include work done in another institution will be eligible for honors if both the over-all and the Barnard averages meet this requirement. Departmental honors are awarded to eligible graduates who are recommended by their departments for distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on at least three grades in each term, exclusive of those courses receiving P.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. For students under the thirty-five course plan, eligibility for election as a junior will require twenty-five completed courses, and as a senior, thirty completed courses. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

HEALTH

The Student Health Service provides diagnosis and treatment of most chronic and all acute medical conditions. The staff is composed of a Director (an internist), an Associate Director, consultants in Adolescent Medicine, Gynecology, and Dermatology, two psychiatrists, two psychiatric counselors, and three nurses.

Complete examinations are performed for seniors in the Autumn Term and sophomores in the Spring Term. They are not mandatory but are recommended and are necessary if health certificates are needed.

All students regardless of residence must immediately report any illness, however minor, to the Office of Health Services. If resident students wish to have someone other than the Health Services physicians care for them, their parents should address a request to the Director and send her the name and address of the doctor before registration.

HOUSING

Barnard strives to maintain as diversified a housing program as possible, providing several options for its students. These options include traditional dormitories, self-contained suite arrangements, and

apartment units in college-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College about 210 spaces are available for those who choose coeducational arrangements. A more complete description of each facility may be found below.

Eligibility

The college has residence facilities for approximately 55% of the student population. Eligibility for housing and manner of assignments are determined by the administration in consultation with the Housing and Campus Environment Committee. In order to assign available space on the most equitable basis certain eligibility criteria have been established:

1. A student must be registered for a full academic program. Exceptions are generally made only for second semester seniors who need to take less than a full program to complete the degree requirements or for students who have permission from the Dean of Studies to take a reduced program.
2. A student is classified as a "resident" if the principal residence of the parent or legal guardian is in the geographic area classified by the College as beyond a commuting area.
3. Any student may live off campus regardless of rank. A permission form signed by the parent or legal guardian must be on file in the Housing Office for any student under 18 years of age.
4. A "commuter" is a student whose permanent residence is within the geographic area classified by the College as the commuting area. This total area is further divided into four zones so that as space in residence halls becomes available it can be offered first to those in the zone of farthest distance, and so on. Class rank is also considered with priority given to seniors, then juniors, etc.
5. A commuter who is offered and accepts residence space retains "commuter" status and must reapply for housing the next academic year as a "commuter." It is generally not possible to increase the financial aid for a "commuter" when she chooses to accept residence space.
6. A student is responsible for reporting any change in permanent address to the Registrar of the College.

Assignments

Returning upperclass students exercise choice in room assignments through a draw. The general order of assignment is to all resident students; and to commuter students as space allows.

Housing Units

Brooks, Hewitt and Reid Halls or "B-H-R" at 3001 Broadway, are operated as a single complex with space for approximately 522 students. It is a supervised dormitory with a staff including a director, graduate assistants, and student residence assistants. Reid Hall is an all-female building housing primarily first year students who are usually assigned to double rooms. Brooks and Hewitt are predominantly upperclass dormitories. The lower floors are co-educational and the upper floors remain all-female. All students living in these halls are required to subscribe to the College meal plan (fifteen meals per week, Monday through Friday).

616 West 116 Street, an apartment-style supervised residence directly across the street from the other halls, provides housing for 210 residents in suites of single and double rooms accommodating five or six students. Each suite has a kitchen and bath. Subscription to the food plan is optional.

Plimpton Hall, an apartment-style supervised dormitory on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 313 residents in suites of five rooms. Each suite has a kitchen and bath. Subscription to the food plan is optional. There are presently 115 Columbia students residing there in all-male suites.

College-Owned Apartment Units. "620" West 116 Street, and "600" West 116 Street. Barnard College has limited space available for students in these apartment buildings. There is no resident supervision. Seniors have first priority for this space. Subscription to the food plan is optional.

General Information

Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

Financial Aid for Room and Board

A Barnard student whose academic record and financial situation make her eligible for financial aid from the College will have the cost of room and board considered in her award if she is classified as a resident student and resides in College housing.

OFFICE OF CAREER SERVICES

The Office of Career Services helps students and alumnae define and implement career plans. In providing this service, the Office has developed a range of projects and activities designed to help students and alumnae explore careers and keep informed about current labor market trends.

The office is open twelve months a year and during that time has contact with a large number of employers. Full-time job listings are available and can be mailed to alumnae who register with us. Credentials for employment are sent out at the request of alumnae and students. A great many students use part-time job listings during the school year for both on and off campus jobs. These jobs include such activities as typing, tutoring, laboratory research, and retail sales. In addition, the Barnard Babysitting Service run by the Office receives thousands of requests annually and provides work for a large number of students. The Federal Work-Study Program is an additional source of jobs during the school year and summer for students eligible for financial aid. A newsletter published monthly by the Office keeps students informed about career programs and other special activities.

To aid students and alumnae in exploring career areas, a library of vocational materials and a collection of catalogues from graduate schools are housed in the Office. Special projects are planned during the year to further this exploration. The Office runs a series of career workshops entitled "After Barnard, What?" In addition career seminars are held regularly to learn about job opportunities for women working in a variety of fields. Other workshops on specific concerns, such as resume writing and job interviewing, are also held. There are group counseling sessions for both alumnae and students. To enable students to "try-out" vocational interests the office staff together with The Alumnae Student Affairs Committee established an internship program during the January semester break. Students work under the sponsorship of alumnae and others in particular career areas. A CONTACT file containing information on over 1400 alumnae who are willing to give career advice is also available to students and alumnae.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the Pre-professional Adviser in the Office of the Dean of Studies for help in programming, selection of schools, and submission of application materials. A student who plans to enter the health professions should register in her first or second college year in order to discuss requirements and obtain a handbook. Registration in the junior year is advisable for any student interested in law, social work, architecture, journalism, or business. The Pre-professional secretary maintains recommendation files for registered students and forwards materials required for applications.

PRE-GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult appropriate faculty members and the Senior Class Adviser. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

STUDENT RECORDS AND INFORMATION

The Family Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without written requests. A further explanation may be found in "A Guide to Barnard College." Registration materials include specific information and instructions for current students.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the students, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received, and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with The Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

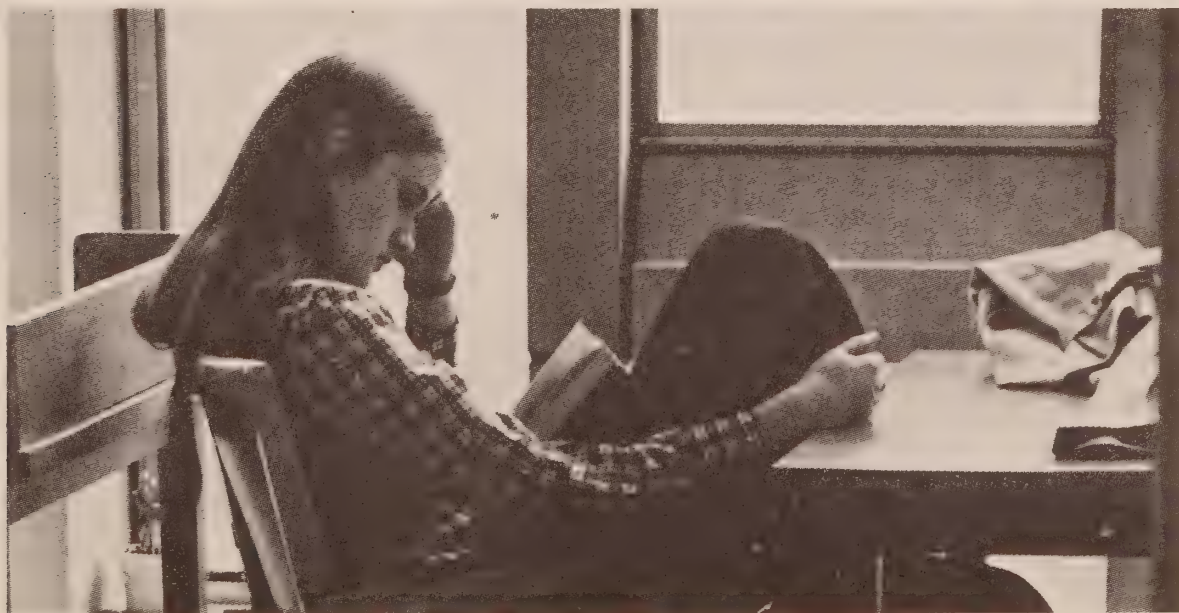
Approximately 90% of those students who are eligible to continue at the college are enrolled in any given year; of the remaining 10%, about half are readmitted after one or more terms away for study, travel, or other reasons. An average of 80% of any entering class is graduated from Barnard. Senior classes are larger than entering classes because transfer students are admitted with sophomore and junior standing.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 50 to 60% of those who receive the degree enter full-time graduate or professional study, with the largest proportions opting for medical schools (10-13%), law schools (10-12%), business schools (3-5%), education schools (3-5%), and schools of the arts (4-8%). The rest, with the exception of fewer than 1%, obtain employment in business and industry, research, publishing, teaching, and other fields.

For other statistics, see Section XIII, page 231.

STUDENT CONDUCT

Policies and regulations concerning student conduct on the University campus and in the College dormitories are recommended by student, faculty, and administrative committees to the Vice President for Student Affairs, the President, and the Board of Trustees. Hearing and appeal procedures are described in *A Guide to Barnard*, and all decisions are subject to review and final disposition by the President.



VII. Courses of Instruction

Course descriptions will be found in the following pages. More information may be obtained from the chairmen of departments at registration periods and during the academic year. The College reserves the right to withdraw or modify any course or program or to change the instructors as may be necessary. All academic programs listed are offered in 1979-80; their listing in this catalogue is not a guarantee of availability in subsequent years.

Room assignments are published in a separate bulletin and distributed during registration.

Autumn Term courses carry odd numbers, Spring Term courses even numbers, year courses consecutive odd and even numbers. An even number followed by an **x** indicates a course given in the Autumn Term. An odd number followed by **y** indicates a course given in the Spring Term.

Indivisible **Barnard** courses which run throughout the year are marked with a hyphen between the numerals (Music 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible **Barnard** courses which run through the year are marked with a comma between the numerals (Geography 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if written permission of the instructor is obtained.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between these course numbers do not necessarily have the connotations described above for Barnard courses.

C—Columbia College

F—School of General Studies

G—Graduate School of Arts and Sciences

R—Program in the Arts

V—Joint undergraduate course with Columbia College and/or the School of General Studies

W—Other inter-faculty course

The level of the course in general is as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates

The symbol **x** follows the number of a course given in the Autumn Term; the symbol **y** follows the number of a Spring Term course.

This program is supervised by the Committee on American Studies:

Professor of History

Annette K. Baxter, Chairman

Professor of Art History

Barbara Novak

Associate Professor of History

Charles S. Olton

Assistant Professor of History

John W. Chambers

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies: In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, which includes the following: (a) Two courses selected from among ancient, medieval, or European history in any combination. (b) Two courses in American history. (c) Two courses in social science dealing primarily or partly with American subject matter. (d) Two courses in humanities dealing primarily or partly with American subject matter. (e) In the junior year American Studies 1, 2, and in the senior year American Studies 3-4.

A research essay to be prepared in the senior seminar is required.

1,2. Seminar on American Culture and National Character.

An interdisciplinary approach to the understanding of America, drawing upon history, literature, art, women's studies, black studies, popular culture, oral history, folklore, and other sources. The first semester examines classic 19th and 20th century responses to American culture and the second semester examines the changing spectrum of contemporary scholarship on American society, from colonial times to the present. Guest lecturers augment the course. American Studies majors are required to take both semesters. Other students may take either semester. 1. Professor Baxter. Tu 2:10-4. 2. Professor Chambers. Th 2:10-4.

3-4. Senior Seminar.

Individual research on diverse aspects of American civilization, in consultation with the instructor, and presentation of results in the form of the senior essay. Professor Baxter. W 2:10-4 and frequent conferences.



Ancient Studies

This program is supervised by the Committee on Ancient Studies:

Professor of Greek and Latin

James A. Coulter (Representative for Columbia College)

Professor of Religion

Elaine Pagels

Associate Professor of Greek and Latin

Lydia Lenaghan (Representative for Barnard College; 215 Milbank Hall)

Associate Professor of History

William V. Harris (Columbia)

Assistant Professor of Art History

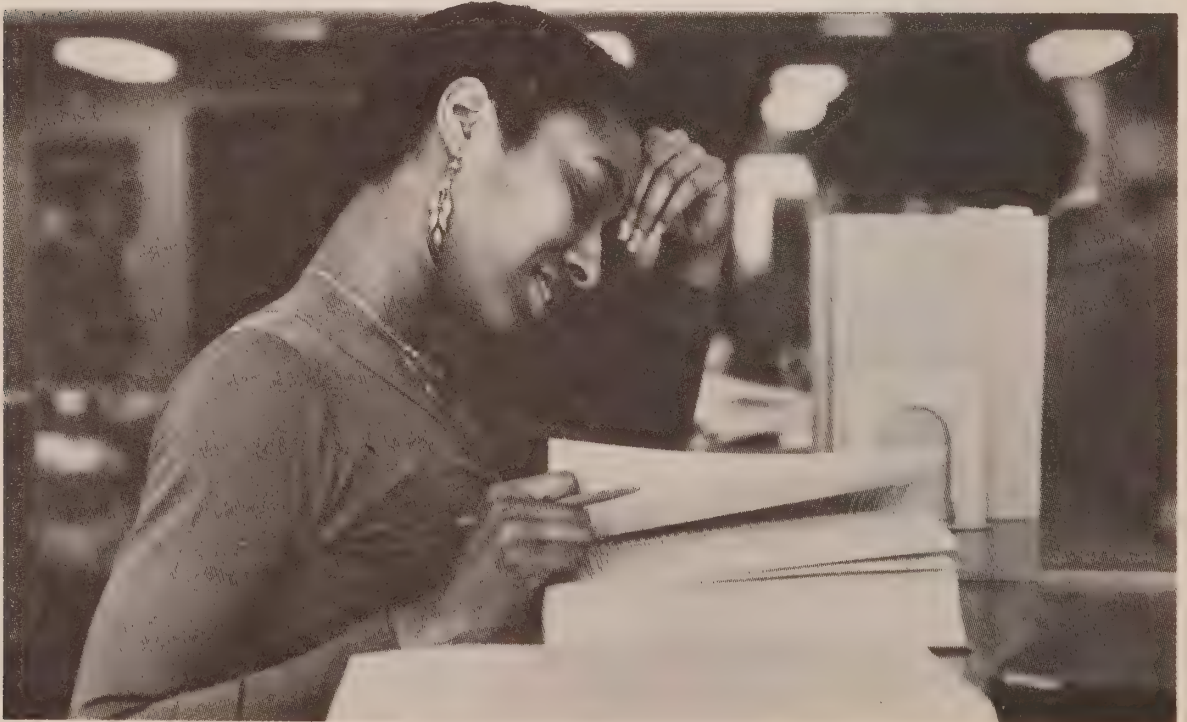
Louise Alpers Bordaz (Representative for General Studies)

The major in Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one. By studying these cultures in several academic disciplines she will acquire a general knowledge and a context for her own area of specialization.

Each student chooses an adviser whose field is closely related to her own and with whom she will do her senior reading, but the programs of all the students are reviewed in common by the Committee, in order to maintain control and a sense of collective enterprise.

Major requirements: nine courses, including at least four courses in one geographical area or period, the appropriate sequence in ancient history, and at least the first semester of Ancient Studies V3998x, V3999y, **Directed Research in Ancient Studies**, with presentation of written results. In some cases, a senior seminar in one of the departments may be substituted for this course. An annual list of relevant courses compiled by the Committee is available from the Representative for Barnard College.

Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, in one of the two a second year sequence must be offered to gain major credit for the first year.



Professors

Morton Klass, Abraham Rosman,¹ Paula G. Rubel,¹ Joan Vincent (Chairman; 411D Milbank Hall)

Assistant Professor

Clive S. Kessler

Other officers of the University offering courses listed below:

Alexander Alland, Jr., Myron L. Cohen, Morton H. Fried, Marvin Harris, Ralph Holloway, Robert F. Murphy, Elliot P. Skinner

Assistant Professors

Daisy H. Dwyer, Frank Findlow, Richard Keatinge, Leith Mullings, David Post, Robert Wasserstrom, Hanni Woodbury

Lecturer

Rose Solecki

¹Absent on leave, 1979-80.

Anthropology is the study of the biological and cultural development of the human species, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on humans and their ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. The flexibility of the anthropology major is such that it may form a basis for further graduate work in that field or may constitute a broad background to careers in a variety of professional fields such as law, medicine, social work, education, etc.

Every major is expected to have a general knowledge of all the fields of anthropology and of their inter-relationship. Anthropology V1001, V1002 is required of all majors as a prerequisite to advanced work in the subject. All majors are required to take in addition V3011, V3041, two colloquia (at least one in the senior year) and at least four other anthropology courses to be chosen in consultation with the student's adviser. Students majoring in anthropology are required to submit a substantial research paper or essay. Such a paper may have its origin in a colloquium (or in another course acceptable to the department) and be completed in 99x or y, or it may be the result of a year's independent research in 99x and 99y. With permission of the chairman, two substantial colloquia reports may be substituted for the essay.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research in the New York area, or, during their summer vacations, in other localities.

BASIC COURSES

V1001x and V1001y. Introduction to the Study of Man.

Man's biological and cultural evolution, as studied by physical anthropologists and archaeologists; introduction to anthropological linguistics. V1001x. Section I. Professor Klass. Tu Th 1:10-2:25. Section II. Professor Fried. M W 2:40-3:55. Section III. Professor Findlow. M W 6:10-7:25. V1001y. Professor Harris. Tu Th 10:35-11:50. Discussion hours to be arranged.

V1002x and V1002y. Introduction to Cultural Anthropology.

Comparative and functional analysis of culture; habitat, technology, and economy; social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality. V1002x. Professor Murphy. M W 1:10-2:25. V1002y. Section I. Professor Klass. Tu Th 1:10-2:25.

Anthropology

Section II. Professor Fried. M W 2:40-3:55. Section III. Professor Wasserstrom. M W 6:10-7:25. Discussion hours to be arranged.

Linguistics V1101x or y. Introduction to Linguistics.

See Linguistics listing.

[5y. Freshman Seminar in Anthropology. Not given in 1979-80.]

INTERMEDIATE COURSES

V3002y. Political Anthropology.

The development and comparative study of political structure and government in non-western societies. Instructor to be announced. Tu Th 10:35-11:50.

[V3003x. Problems in Developing Countries. Not given in 1979-80.]

[V3004x. Introduction to Archaeology. Not given in 1979-80.]

[V3005x. Peoples of Africa. Not given in 1979-80.]

[V3006y. Peoples of Southeast Asia. Not given in 1979-80.]

V3007x. Peoples of Europe.

Intensive analysis of selected ethnographic studies reflecting the cultural variation of the peoples of Europe. Professor Vincent. Tu Th 9:10-10:25.

[V3008x. Ethnology of North American Indians. Not given in 1979-80.]

V3009x. Peoples of the Middle East.

Survey of culture areas from North Africa to Pakistan, with intensive analysis of selected studies. Instructor to be announced. M W F 11.

[V3010y. Native South America. Not given in 1979-80.]

V3011y. Social Organization.

The institutions and organization of social life, particularly in non-literate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. Instructor to be announced. M W F 10.

V3012x. Economic Anthropology.

Approaches to the study of resource allocation in production, consumption, and distribution in tribal and peasant societies, with detailed analysis of illustrative ethnographic materials. Prerequisite: an introductory course or permission of the instructor. Instructor to be announced. M W F 12.

[V3013y. Village India. Not given in 1979-80.]

[V3014y. Peoples of East Asia. Not given in 1979-80.]

V3016y. Peoples of the Pacific.

A comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations. Emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area. Instructor to be announced. M W F 11.

[3018x. The Development of Urbanism: An Archaeological Perspective. Not given in 1979-80.]

V3020y. Men's and Women's Speech.

Cross-cultural and cross-linguistic investigation of differences among men's and women's speech-patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time. Professor Woodbury. M W 1:10-2:25.

V3021y. Sex Roles in Cross-Cultural Perspective.

A consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures will be considered. Beliefs about sex and the sexes as well as the presence or absence of sex antagonisms will be examined. Professor Dwyer. Tu Th 1:10-2:35.

V3024y. Changing Africa.

This course is designed to study the major forces at work in contemporary Africa, and to examine the changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent. Professor Skinner. M W 1:10-2:25.

V3025x. Law, Culture, and Society.

A survey of law and order systems in Western and non-Western societies. It examines the kinds of social control problems that societies of different levels of complexity confront and the solutions that those societies forward. Forms of conflict behavior, methods of dispute settlement, and substantive law content provide foci for the course. Professor Dwyer. Tu Th 1:10-2:25.

[V3026y. Socio-cultural Dimensions of Poverty. Not given in 1979-80.]**[V3027x. Culture and the Individual. Not given in 1979-80.]****V3029y. The Archaeology of the Old World.**

A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Dr. Solecki. Tu Th 9:10-10:25.

V3032x. The Archaeology of the New World.

A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of first civilization. Dr. Solecki. Tu Th 9:10-10:25.

[V3033x. Sociolinguistics. Not given in 1979-80.]**V3034y. Ethnolinguistics.**

Grammatical categories in relation to culture, language and world view; speech events and strategies; scientific and folk classification (overt and covert); sex linked speech; phonetic and structural analysis of texts, myths, and natural discourse. Professor Woodbury. M W 1:10-2:25.

V3036x. Peasant Societies.

An introduction to pre-industrial agrarian social systems. Professor Cohen. Tu Th 10:35-11:50.

V3037y. Societies in Transition.

An analysis of the changes that are taking place in traditional societies in the twentieth century, with emphasis on the relation between traditional cultures and new institutions. Instructor to be announced. M W F 12.

V3038x. Ethnic Relations in Changing Societies.

Analysis and comparison of ethnic relations in settings of cultural pluralism, with special reference to developing countries. Instructor to be announced. M W F 9.

V3042x. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Instructor to be announced. M W F 10.

V3044y. Symbolism.

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles will be examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others. Professor Kessler. Tu Th 2:40-3:55.

Anthropology

[V3048x. Laboratory Techniques in Archaeology. Not given in 1979-80.]

[V3050y. Field Archaeology. Not given in 1979-80.]

V3100y. Urban Societies.

Evolution of cities. A cross-cultural view of kinds of urban formations. Examinations within an anthropological context of various aspects of urban life. Professor Mullings. Tu Th 4:10-5:25.

[V3121x. Environment and Cultural Behavior. Not given in 1979-80]

[V3125x. Evolution of Subsistence Agriculture Systems. Not given in 1979-80.]

V3128x. Medical Anthropology.

An examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies. Professor Mullings. Tu Th 4:10-5:25.

[V3200y. Colloquium on Methods of Anthropological Research. Not given in 1979-80.]

V3201x. Introductory Survey to Biological Anthropology.

The human species in biological and evolutionary perspective with particular emphasis on the behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, the fossil evidence for human evolution, human variation, and the interaction of biology and culture. Mr. Post. Tu Th 10:35-11:50.

[45. Theory and Results in Archaeology. Not given in 1979-80.]

W3203y. Primate Behavior.

Introduction to the study of primates, emphasizing social behavioral patterns as adaptation within ecological constraints. Primate taxonomy, fossil record, social behavior, the uses and abuses of primate studies for understanding human evolution and behavior. Prerequisite: V3201 or permission of the instructor. Mr. Post. M W 6:10-7:25.

FOR MAJORS ONLY

V3041x. History of Anthropological Theory.

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx will be considered, along with the theoretical writings of such anthropologists as Tyler, Morgan, Boas, Malinowski, and Radcliffe-Brown. Professor Kessler. Tu Th 2:40-3:55.

42y. Colloquium on Current Anthropological Theory.

Intensive analysis of selected theoretical approaches and issues in anthropology. Permission of the instructor required. Instructor to be announced. M 4:10-6.

V3500y. Colloquium: Problems in Structuralism.

Reading and research in anthropological theories of structuralism. Review of works of Claude Lévi-Strauss, Edmund Leach and others in relation to relevant work in linguistics, psychology, sociology and philosophy. Permission of the instructor required. Professor Murphy. M 2:10-4.

V3700x. Colloquium: Anthropological Research Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. Instructor to be announced. M 4:10-6.

[V3720x. Colloquium on Marxism and Ethnography. Not given in 1979-80.]

V3820x. Seminar: Archaeology and Religion.

A survey of the nature and role of religion in prehistoric societies from the time of its earliest manifestations in the archaeological record through the rise of ancient civilizations. Both archaeological data as well as ancient textual evidence of religious ideology and activity in prehistoric societies throughout the world will be examined. The relationship between religion, political structure, and

economy, the diffusion of religious ideologies, and the role of religion in the rise of centralized societies are some of the problems that will be considered. Prerequisites: Anthropology V1001, V1002. Permission of the instructor required. Professor Keatinge. Tu 11-1.

67, [68]. Ethnographic Research in New York City.

Seminar-Workshop on field research in New York City. Lectures, discussions and demonstrations of the research methodology of anthropology, to be followed by supervised field research on selected ethnographic topics in a variety of urban settings. Permission of the instructor required. Instructor to be announced. Th 4:10-6.

[71, 72. Senior Research Seminar. Not given in 1979-80.]

99x, 99y. Individual Projects.

Research projects will be planned in consultation with members of the department. Open to majors on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Art History

Professor

Barbara Novak (Chairman, Autumn Term; 301B Barnard Hall)

Adjunct Professor

Brian O'Doherty

Associate Professor

Dorothea Nyberg

Assistant Professors

Roberta Bernstein, Anne W. Lowenthal, Jane Rosenthal (Acting Chairman, Spring Term, 301B Barnard Hall)¹

Adjunct Associate Professor

Joseph Masheck

Adjunct Assistant Professor

Waltraud Schleicher-Woods (Adviser, Architecture)

Visiting Artists

Milton Resnick, Victoria Barr

Other officers of the University giving instruction at Barnard College:

Adjunct Assistant Professor

J. Woodson Rainey, Jr.

Instructor

Ronald Williams

Other officers of the University offering courses listed below:

Professors

James Beck, Richard Brilliant,² George Collins, Howard McP. Davis, Douglas Fraser, Alfred Frazer,¹ Robert Hanning (English), Howard Hibbard,³ Milton J. Lewine, Miyeko Murase, Edith Porada, David Rosand, Allen Staley

Assistant Professors

Christine Andersson, Rosemarie Bletter, Pamela Z. Blum, Louise Bordaz, Beth Cohen, Stephen Gardner, Esther Pasztory, H. Alan Shapiro, Gerald Silk, J. Kirk T. Varnedoe

¹Absent on leave, Autumn Term.

²Absent on leave, Spring Term.

³Absent on leave, 1979-80.

Art is a unique form of human experience. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the department of Art History are designed to take advantage of the resources of New York, one of the world's great centers of art. A limited number of studio courses are also offered at Barnard; in addition, students may take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 54 for regulations governing these courses. Studio courses do not count towards the major.

Students who want to major in Art History must take at least nine courses in the department. They should select a full-time member of the department as their adviser, preferably during their sophomore year and not later than the beginning of their junior year. They should plan their academic program in consultation with this adviser. The department strongly suggests that majors take Course 1, 2, and thereafter they must take at least one advanced course in ancient, medieval, renaissance, baroque,

and modern art, so as to be able to appreciate the variety of artistic expression in different countries and periods. At least five courses in the major should be Barnard courses. Students may register their major as art history with emphasis on architecture. Students wishing to major in Architecture should see Professor Schleicher-Woods. Address inquiries regarding an art history major to Professor Novak.

Majors are required to take at least three seminars, two at Barnard. Seniors in Art History are required to write a senior essay, which may be an expansion of a seminar paper. Under special circumstances and with the chairman's permission, seniors may elect Art History 99x or y, independent research for the senior essay. Art History 99x or y may not be used to fulfill the seminar requirement, but can be taken in addition to the three required seminars.

Students planning to do graduate work should obtain a reading knowledge of at least two of the foreign languages in which the major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.)

Students wishing to minor in Art History must take five courses chosen in consultation with the department. The five courses must include AH 1, 2 and three other lecture courses, one each in three of the following five areas: ancient, medieval, renaissance, baroque, and modern art.

The Program in the Arts: Those students contemplating a career in studio art should see the announcement on the Program in the Arts, pages 56-57, and should consult with Professor Novak at the earliest possible time.

1, 2. Introduction to the History of Art.

A brief examination of the techniques of visual analysis, followed by a chronological survey of the major period styles of Western European art. Emphasis will be given to the interpretation of form and content in the works studied and to the correlation of the visual arts with their respective cultural environments. Either course may be taken separately. Autumn Term: Greek and Roman art, Medieval art. Spring Term: Renaissance to modern art. Autumn Term: Professor Bernstein. Spring Term: Professor Rosenthal. M W 1:10-2:25.

V3080x. Pre-Columbian Art.

A survey of the pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish Conquest. Professor Pasztory. Tu Th 10:35-11:50.

[V3090y. American Indian Art. Professor Pasztory. Not given in 1979-80.]

[W4065y. Art of Oceania. Professor Fraser. Not given in 1979-80.]

W4075x. Art of Africa.

Form and content of the traditional arts of various tribal groups south of the Sahara. Professor Fraser. W 6:10-8.

W3155x. Introduction to the Archaeology of the Near East and the Aegean.

Survey of archaeological method and examination of selected Neolithic and Bronze Age sites. Professor Bordaz. M W 2:40-3:55.

W3153y. The Neolithic in the Near East and the Aegean.

Lectures and discussion sessions focusing on theories relating to this period and on representative sites. Professor Bordaz. M W 2:40-3:55.

W3150x. Art and Architecture of the Ancient Near East.

The arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B.C. Professor Porada. M 5:30-8.

[W3156y. The Transition to Urban Life and Civilization in the Ancient World. Professor Bordaz. Not given in 1979-80.]

[W3180x. Art of Ancient Egypt. Professor Porada. Not given in 1979-80.]

W4184x. Egyptian History, Culture, and Art: Old Kingdom and Relations with Western Asia.

Professor Porada. Tu 5:30-8:20.

W4185y. Egyptian History, Culture, and Art: Middle Kingdom and Middle Bronze Age in Biblical Lands.

Professor Porada. Tu 5:30-8:20.

[Archaeology W4173x. Archaeology of Turkey I. Professor Bordaz. Not given in 1979-80.]

[Archaeology W4174y. Archaeology of Turkey II. Professor Bordaz. Not given in 1979-80.]

W4208x. Archaeology of the Aegean Areas I. Professor Bordaz. M 11-12:50.

W4209y. Archaeology of the Aegean Areas II. Professor Bordaz. M 11-12:50.

V3246y. Myth and Art in Greece.

The changing representation of mythological and religious themes in Greek painting and sculpture from the late Geometric to the Hellenistic period. Emphasis on the development of specific cycles of myths of heroes and gods with reference to their historical contexts. Readings in ancient sources (in translation) and in modern criticism. Professor Cohen. M W 4:10-5:25.

V3248x. Greek Art and Architecture.

An examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. Professor Brilliant. Tu Th 2:40-3:55.

V3250y. Roman Art and Architecture.

The architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. Professor Frazer. Tu Th 2:40-3:55.

[W4255y. Hellenistic Art. Professor Brilliant. Not given in 1979-80.]

[51. Early Christian and Early Medieval Art. Professor Rosenthal. Not given in 1979-80.]

52. Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions. Professor Gardner. M W 2:40-3:55.

61. European Architecture from the Renaissance through the Rococo Style.

The development of Renaissance, Baroque, and Rococo architecture in Italy, France, Germany, and England from the fifteenth to the mid-eighteenth century. Among the architects to be studied will be Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, Wren, Neumann, and Boffrand. Professor Nyberg. Tu Th 2:40-3:55.

V3420y. Italian Sculpture during the Renaissance.

A survey of developments from the thirteenth to the sixteenth century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo. Professor Beck. M W 2:40-3:55.

W3633y. Italian Renaissance Painting.

Painting in Italy from the revival of painting in the late thirteenth century to the early sixteenth century. Emphasis on the Early Renaissance and on a close analysis of the works of Giotto, Masaccio, and Piero della Francesca. The High Renaissance is discussed less fully, with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition. Professor Davis. Tu Th 10:35-11:50.

W4430x. German Renaissance Art.

A survey of painting, sculpture, and graphic arts in Germany during the period 1480-1550, concentrating on Schongauer, Durer, Grunewald, Cranach, Altdorfer, Riemenschneider, and the Vischers. Professor Andersson. Hours to be arranged.

C3688x. Northern European Painting.

Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, Van der Weyden, Bosch, Bruegel, and Rembrandt. Professor Davis. Tu Th 10:35-11:50.

[C3020y. Drawings and Prints. Professor Rosand. Not given in 1979-80.]

75. European Painting since the Renaissance.

Baroque and Rococo. Painting in Italy, France, England, Flanders, Holland and Spain from 1600 to the middle of the eighteenth century, with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velázquez, Watteau, Hogarth, and Tiepolo. Professor Lowenthal. Tu Th 2:40-3:55.

76. European Painting since the Renaissance.

Painting from the late eighteenth century to 1900. Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Emphasis will be on the developments in France, from David to Cézanne and Seurat, but with attention to Goya, Constable, and Turner as well. Professor Bernstein. Tu Th 2:40-3:55.

W4422x. Rome.

Sixteenth-century architecture, urbanization, and topography. Professor Lewine. W 2:10-4.

W4423y. Rome.

Seventeenth-century architecture, urbanization, and topography. Professor Lewine. W 2:10-4.

[W4426x. Earlier Seventeenth-century Art in Southern Europe. (formerly V3500x). Professor Hibbard. Not given in 1979-80.]

[W3420y. Michelangelo. Professor Hibbard. Not given in 1979-80.]

59y. Seventeenth-century Art in Northern Europe 1580-1680.

Special attention is paid to the various categories and functions of works of art; the roles of dominant figures, Rubens, Rembrandt; and relations with contemporary art elsewhere in Europe. England and Germany are treated briefly. Professor Lowenthal. Tu Th 1:10-2:25.

[W4451x. High Renaissance Art and Architecture. Professor Lewine. Not given in 1979-80.]

[64. European and American Sculpture, Baroque to Modern. Not given in 1979-80.]

69. French Architecture 1500-1800.

The cohesive tradition of French architecture with major emphasis on such figures as Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonier, Servandoni, and Soufflot. Professor Nyberg. Tu Th 10:35-11:50.

70. European and American Architecture from the Eighteenth Century to 1900.

The development of eighteenth-century architecture in Europe and America; the interaction of historical styles and new structural techniques in the nineteenth century. Professor Nyberg. Tu Th 2:40-3:55.

[83y. Art and Architecture of Great Britain and Ireland. Not given in 1979-80.]

[W3600x. Nineteenth-century Art. Professor Varnedoe. Not given in 1979-80.]

[77. American Art from Colonial Times to the Armory Show. Professor Novak. Not given in 1979-80.]

[W3605x. The Arts in Spain from the Golden Age to the Present. Professor Collins. Not given in 1979-80.]

W4624x. American Painting 1760-1900.

A consideration of some of the principal ideas behind the American painting tradition with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science, and literature. Professor Novak. M 2:10-4.

[C3681x. American Art of the Twentieth Century. Professor Silk. Not given in 1979-80.]

W4840x. Art Since 1945.

Painting and sculpture in Europe and America from 1945 to the present. Professor Silk. Th 4:10-6.

C3833x. Twentieth-century Architecture.

Tendencies in twentieth-century architecture and city planning as related to other cultural developments. Origins of the modern movement in the stylistic and technological developments of the nineteenth century. Major contemporary contributions. Sign up in 815 Schermerhorn. Professor Bletter. M W 12-1:15.

[V3622y. Cities and Planning. Professor Collins. Not given in 1979-80.]

72. Women in Art.

A survey of women artists from the Renaissance to the present, examining the works, careers, and lives of women artists and the changing role of women in relation to the art establishment. Professor Bernstein. M W 4:10-5:25.

73, 74. Art from 1875 to 1975. (73 formerly 78)

An introduction to painting and sculpture of the twentieth century. The Autumn Term treats modern art from its origins in the late nineteenth century to World War II. The Spring Term surveys the art of the last twenty-five years. 73 or its equivalent is recommended as preparation for 74. Professor Masheck. Tu Th 10:35-11:50.

C3748y. European Painting of the Eighteenth Century: From Watteau and Tiepolo to David and Goya.

Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background. Professor Staley. Tu Th 4:10-5:25.

W3650y. Twentieth-century Art.

The major trends and sources of twentieth-century painting, sculpture, and architecture with special emphasis on an understanding of the cultural environment and related developments. Professor Silk. M W 6:10-7:25.

[W4626y. American Art 1900-1945. Professor Silk. Not given in 1979-80.]

C3812y. Photography and the Arts.

The history of photography's development to the time of WWI. Major figures in photography will be considered in relation to developments in painting and science. Some background in the history of nineteenth-century art is recommended. Professor Varnedoe. Tu Th 2:40-3:55.

V3201x. Arts of China. (formerly 91)

A survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods. Attention also to the arts of Central Asia and India as they affect the arts of China. Instructor to be announced. Tu Th 4:10-5:25.

V3203y. Arts of Japan. (formerly 92)

A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints. Professor Murase. Tu Th 4:10-5:25.

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard seminars. In addition it is strongly recommended that students seeking admission to a seminar will have previously had a lecture course in the area. Students must sign up for Columbia seminars at 815 Schermerhorn.

C3933y. Medieval Art at the Cloisters.

Study of medieval sculpture, painting, and minor arts in the permanent collection and the temporary Pitcairn exhibition. Professor Blum. Hours to be arranged.

F3684y. Five Great Printmakers: Durer, Rembrandt, Piranesi, Goya, Degas.

The masters' prints discussed in terms of subject matter, technique, and stylistic development. First-hand study of originals in the Metropolitan Museum's collection with attention to connoisseurship. Professor Ives. Tu 5:30-8.

F3690x. Museum Studies: European Furniture.

Professor Dauterman. Tu 5:30-8.

[C3955x. Seminar in German Expressionist Film and Art. Professor Bletter. Not given in 1979-80.]

[V3668x. Seminar in Modern City Planning. Professor Collins. Not given in 1979-80.]

[C3965y. Expressionism and the Bauhaus. Professor Bletter. Not given in 1979-80.]

[C3960x. Seminar in Renaissance Book Illustration. Professor Andersson. Not given in 1979-80.]

[V3920y. Seminar on Leonardo da Vinci. Professor Beck. Not given in 1979-80.]

[W3960y. Roman Baroque Architecture. Professor Hibbard. Not given in 1979-80.]

[Seminar in Art and Photography. Professor Varnedoe. Not given in 1979-80.]

[Art History-Comparative Literature C3922y. Themes in the Art and Literature of the Renaissance.

Professors Hanning and Rosand. Not given in 1979-80.]

71. Seminar on Problems of Style.

After a common consideration of the nature of style, and of art historical periodization, students will present reports applying these concepts. Professor Bernstein. Th 4:10-6.

79. Seminar in Contemporary Art by Women.

An examination of the question: Is there a feminine style or aesthetic in contemporary art? Professor Bernstein. Th 11-12:50.

81, 82. The Literature of Art.

Study of the literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Fromentin, Baudelaire, Ruskin, the Brothers Goncourt, Huizinga, Burckhardt, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux). The Autumn Term will be devoted largely to writings of the artists and their contemporary critics. The Spring Term will be devoted to theories of modern criticism and scholarship. Intended for junior majors but also open to senior majors. Professor Novak. W 11-12:50.

85. Seminar in Connoisseurship.

Factors involved in judging works of art, with emphasis on paintings and drawings: materials, deterioration, damage, restoration; attribution; replicas, copies, imitations, and fakes; questions of relative quality. Meetings at the Metropolitan Museum of Art, other museums, private collections, and dealers. Registration limited to 14 senior majors.

86. Seminar in Art Criticism.

A workshop in writing criticism. Short weekly assignments on such matters as Language, Experience, Narrative and the Object. A close examination of Process. Students will write art criticism based on their gallery visits and will refer to current and previous criticism. Professor O'Doherty. M 11-12:50.

C3984y. Cézanne.

The historical context, personal content, artistic sources and stylistic development of Cézanne's art. Emphasis will be placed on the study of original works in New York museums. Oral and written reports. Prerequisites: Junior standing, one course in nineteenth-century art, and permission of the instructor. Professor Reff. M 2:10-4.

[W3430y. Renaissance Florence. Professor Beck. Not given in 1979-80.]

[W3930y. Victorian Art. Professor Staley. Not given in 1979-80.]

[87. **Art Between the Wars.** Professor Masheck. Not given in 1979-80.]

C3666y. Architecture since 1945.

Analysis of recent architectural theory and design based upon primary source materials. Topics include the work of Frank Lloyd Wright, LeCorbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others. Readings, class discussions, and written reports. Prerequisite: Art History C3833 or comparable course; junior standing and permission of the instructor. Professor Bletter. M 2:10-4.

C3986x. Art and Technology.

An examination of the interaction between modern art and contemporary technology with special emphasis on various movements including Futurism, Constructivism, the Bauhaus, De Stijl, Precisionism, Pop, and others. Professor Silk. W 4:10-6.

93. Fantasy Architecture, 1700 to the Present.

Seminar topics will be chosen from among the many influential architect-dreamers who were, or still are, affecting architectural works of Europe and America. Examples: Boullée, Ledoux, Pugin, Gaudi, Sant-Elia, Safdie, Soleri, Kahn. Professor Nyberg. W 11-12:50.

96. The Arts of the Rococo.

The painting, sculpture, and architecture of the first half of the eighteenth century are studied in the light of the international culture of Europe. Special emphasis on Watteau, Chardin, Meissonnier, Boffrand, Juvarra, Specchi, and Hawksmoor. Professor Nyberg. W 11-12:50.

[98. **Social and Political Functions of Architecture.** Professor Nyberg. Not given in 1979-80.]

99x, 99y. Independent Research for Seniors.

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission. Hours to be arranged.

STUDIO COURSES

A maximum of four courses of studio work may be credited. **Columbia courses or sections which offer only 2 points do not count for Barnard credit.** Students taking more than two courses of studio work are required to validate the additional credit courses in art history. Studio courses 3, 4, 5, 6, 7, 8, and 10, 12 are given at Barnard and no special permission is needed to take these courses. However, enrollment is limited and students must sign up in 301 Barnard Hall. The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative (Professor David Lund). Classes are limited to 18 students. Students who wish to enter the Columbia courses listed below are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term.

3, 4. Studio Painting.

Studio course in painting with acrylic and oil. Supplementary instruction in drawing and the use of color. Emphasis is on individual development. Miss Barr. Tu 2:10-6.

5, 6, 7, 8. Advanced Painting.

A course designed to teach students basic skills by setting specific tasks to be executed in painting. Previous art training is not necessary. Limited to fifteen students. Mr. Resnick. F 1-5.

10. Architectural Graphics (Free-Hand Drawing).

Studio work in three-dimensional graphic vocabulary, with emphasis on conceptual/perceptual techniques in free-hand drawing. Special attention paid to the individual student's particular skills. Limited to 15 students. Both Course 10 and 12 must be taken to receive one course credit. Mr. Williams. W 1-5.

12. Architectural Graphic Techniques.

Studio introduction to a two and three dimensional graphics vocabulary with an emphasis on measured drawing techniques and scale model construction. Limited to 15 students. Both Course 10 and Course 12 must be taken to receive one course credit. Mr. Rainey. Tu 9-11.

Drawing R1001x, R1002y. Drawing, I and II.

Model fee: \$15 per term. Section I. Professor Racz. M W 9-11:50. Section II. Professor Racz. M W 1:10-4. Section III. Professor Wilson. M W 7:10-10. Section IV (Autumn Term only). Mr. Williams. Tu Th 7:10-10.

Drawing R3001x or y. Drawing, III.

Model fee: \$15 per term. Professor Racz. M W 1:10-4.

Painting R1011x, R1012y. Painting, I and II.

Model fee: \$20 per term. Section I. Ms. Snider. M W 7:10-10. Section II. Professor Goldin. Tu Th 9-11:50. Section III. Ms. Wilson (Autumn). Mr. Lund (Spring). Tu Th 1:10-4.

Painting R3001x, R3002y. Painting, III and IV.

Model fee: \$15 per term. Professor Goldin. Tu Th 9-11:50.

Printmaking R1041x, R1042y. Woodcut, I and II.

Laboratory fee: \$25 per term. Mr. Payden. Tu Th 7:10-10.

Printmaking R1043x, R1044y. Intaglio, I and II.

Laboratory fee: \$25 per term. Mr. Harrison. Tu Th 9-11:50.

Printmaking R1045x, R1046y. Lithography, I and II.

Laboratory fee: \$25 per term. Mr. Blackburn. M W 7:10-10.

Printmaking R3001x, R3002y. Intaglio, III and IV.

Laboratory fee: \$25 per term. Mr. Harrison. Tu Th 1:10-4.

Sculpture R1021x, R1022y. Clay Modeling, I and II.

Model fee: \$20 per term. Professor Linder. Tu Th 9-11:50.

Sculpture R1027x, R1028y. Welding, I and II.

Laboratory fee: \$25 per term. Section I. Instructor to be announced. Tu Th 9-11:50. Section II. Instructor to be announced. Tu Th 1:10-4.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Program in the Arts

This program is supervised by the Committee on the Program in the Arts:

Professor of Art History

Barbara Novak

Professor of English (Writing)

Barry Ulanov

Professor of English (Theater)

Kenneth Janes

Professor of Music

Hubert Doris

Professor of Dance

Jeanette Roosevelt, Chairman

The Program in the Arts is offered for a limited number of students who are gifted in one of the arts and who wish both to continue the development of their skills and to obtain a liberal education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as studio work in the visual arts, music as a performing art, the dance in all its aspects, theater as a performing art or as a discipline of literary scholarship, and writing in all its branches.

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to take the introductory course in their freshman year and to seek the counsel of members of the Committee in shaping their program as early as possible. Admission is based upon application to be made before March 1 of the sophomore year. Each applicant will be asked to provide supporting evidence of her individual skill. There are broad general requirements and special ones in each of the disciplines, but each student's program will be given shape with the utmost flexibility possible.

Courses offered under the sponsorship of the Committee, required of all students majoring in the Program in the Arts, are described in the section below. Requirements for the various concentrations within the program are outlined following. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

1y. Introduction to the Arts.

An interdisciplinary presentation, with special emphasis upon theories of style and performance. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. The course stresses the phenomenon of process in the arts, observed through (1) the consideration of style in the various arts, (2) the study of a crucial period in the history of the arts, and (3) the consideration of major figures in the period, whose innovations in style or inventions in technique led to new forms of expression. Subject for 1979-80: The arts of Romanticism. Professors Doris, Roosevelt and others. Dance and theater laboratory. Tu Th 10:35-11:50. Lab. hours to be arranged.

51. Junior Colloquium.

A close study of critical and scholarly works in the history and traditions of the arts, selected to illuminate a particular theme each year. The aim of the colloquium is to develop skills in writing and discussion, and to equip students to deal with the special problems that accompany any examination of the arts on an interdisciplinary basis. Theme for 1979-80: Perception. Professor Carpenter. Th 4:10-6.

91. Senior Seminar.

Contemporary issues in the arts, with special reports and projects leading to a thesis or a performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1979-80: Expressionism. Professor Roosevelt and associates. Tu 4:10-6.

Courses required for the Dance concentration:

Dance 61-62.	Dance Workshop.
Dance 63.	Form in Dance Composition.
Dance 64.	Content in Dance Composition.
Dance 65, 66.	History of Dance.
Dance 74.	Seminar on Contemporary Dance Forms.

Courses required for the Music concentration:

Any two of the following:

Music V3124y.	History II.
Music V3125x.	History III.
Music V3126y.	History IV.

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100x-V2101y.	Theory I and II.
Music V2300x-V2301y.	Theory III and IV.

Courses required for the Theater concentration:

English 30. Introduction to the Theater (may be waived upon evidence of sufficient theater background).

English 33, 34. Play Production.

English 31 **or** 32. The Contemporary Theater.

English 35 **or** 36. Actor's and Director's interpretation of Dramatic Literature.

Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Three courses in dramatic literature drawn from the following:

English 63 **or** 64. Shakespeare.

English 86. Modern Drama.

English 34. The French Theater of the Seventeenth Century.

Class. Lit. V3123. Greek Drama and its Influences.

Greek V3305x. Tragedy.

German 25. Great German Dramatists and Theaters of the Nineteenth Century.

German 26. The Modern German Theater.

Russian V1299x. Russian Drama and Theater.

Courses required for the Visual Arts concentration:

Art History 1, 2. Introduction to the History of Art.

Art History 73, 74. Art from 1875 to 1975.

Art History 86. Seminar in Art Criticism.

A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

Courses required for the Writing concentration:

Four courses selected from the following:

English 3, 4. Structure and Style.

English 5, 6. The Craft of Writing.

English 7, 8. Experiments in Writing.

English 11, 12. Story Writing.

English 13, 14. Dramatic Writing.

English 93. Literary Analysis and Evaluation.

Plus two advanced courses from any of the college departments of language and literature.

Professors

William A. Corpe, Patricia L. Dudley

Associate Professor

Frederick E. Warburton

Assistant Professors

Philip V. Ammirato, Julia Chase

Laboratory Director

Franziska K. Hart

Other officers of the University offering courses listed below:

Professors

Sherman Beychok, Walter J. Bock, Wallace S. Broecker (Geological Sciences), Charles R. Cantor, Eric Holtzman, Cyrus Levinthal, Alexander A. Tzagoloff, Geoffrey L. Zubay

Associate Professors

Alberto L. Mancinelli, H. James Simpson, Jr. (Geological Sciences)

Assistant Professors

John D. Harding, James A. Lewis, Catherine L. Squires, Maurice Zauderer

Lecturer

Gail Arnold

The major program is designed to serve a variety of needs. Some students interested in general education major in biology because they desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or they may wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed depends on the ultimate aims of the student and is planned in consultation with members of the department. Planning of the course sequence in biology and related fields is necessary to provide a balanced program and to assure that prerequisites for advanced courses are completed in time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. In addition to biochemistry (Biology-Chemistry C3501x), one course taken outside the department may be counted toward a biology major: Psychology 17y or Psychology 54x or another pertinent course by special permission. In fulfilling the major requirement, students must include at least five terms of laboratory work in biology.

If given special permission, qualified students may take courses offered in the graduate school. They should consult the Bulletin of the Graduate School of Arts and Sciences and their major advisers.

Three or four chemistry courses, chosen in consultation with an adviser, fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school and this amount is generally regarded as the minimum for biology majors as well. Entering freshmen who know that they will major in biology are advised to take Chemistry 1 and Chemistry 30 in the first year. Students interested in ecology or evolution should take Geology V1021x and V1022y. A year of general physics should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

The Graduate Record Examination is given as the major examination. Students are encouraged to do

summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

Research projects (Biology 99x, 99y) may be selected by students desiring to do individual work. Only one term of such "special topics" can be counted toward the biology major, although more may be used as general electives. Space and equipment are made available for such projects.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking Course 1-2.

A laboratory fee of \$40 is charged for each laboratory course: 1, 2, 3, 7, 10, 12, 18 and 24.

1-2. General Biology.

The nature, development, and implications of biological knowledge; biochemical basis and energy relations of organisms; structure and function of cells; organization and physiology of plants and animals, with emphasis on integration and control; classical and molecular genetics; development and differentiation; evolution, ecology, and animal behavior. Professors Ammirato and instructor to be announced. Lec. M W F 9. Lab. (3 hours) Tu, Th 9-11:50, W, F 10-12:50., M, Tu, Th 1:10-4, M, Tu, W, Th 2:10-5.

C1007x. Introduction to Modern Biology.

Professors Beychok and Levinthal. Lec. M W F 11 Recit. 2 hours to be announced.

3. The Biology of Plants.

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance. Prerequisites: Biology 1-2 or equivalent and permission of the instructor. Instructor to be announced. Lec. Tu Th 9:25-10:50. Lab. Tu or W 1:10-5.

C1208y. Introduction to Organismic and Evolutionary Biology of Animals.

Professor Bock. M W F 11.

4. Natural History of the New York Area.

Field observations of plants, fungi, birds, reptiles, amphibians, lower invertebrates and arthropods. Methods of identification, collection, preservation. Visits to a variety of ecosystems, both semi-wild and altered by man. Written permission of the instructor required. Professors Warburton and Sanders (Geology). Field trips, laboratory, and discussions. Hours to be arranged. One course credit, part in Autumn and part in Spring Term. Does not satisfy laboratory requirement.

5. Introduction to Genetics, B.

Mendelian and quantitative genetics of plants, animals, and man: segregation, recombination, measurement of linkage, and the genetics of continuous variation. Cytogenetics. Developmental genetics. Population genetics and evolution. Human genetics will be emphasized where it exemplifies general principles. Prerequisites: a course in introductory biology; calculus or statistics, or permission of the instructor. Professor Warburton. Lec. Tu Th 11-12:15. 1 hour recitation and demonstration.

6. Evolution.

The modern theory of evolution; the genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species. Prerequisite: Biology 1-2 or equivalent. Professor Warburton. Lec. Tu Th 11-12:15. Museum trips to be arranged.

7. Invertebrate Zoology.

The biology of invertebrate animals: Comparative fine and gross structure, development, physiology and autecology. Major emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal. Prerequisites: a year of college-level biology and permission of the instructor. A course in cell biology is recommended. Professor Dudley. Lec. M W 11-12:15. Lab/demonstration (4 hours) W or Th 1:10-5.

8. Physiological Ecology.

The effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment. Prerequisites: a year of college-level biology and permission of the instructor. A course in general chemistry is recommended. Professor Dudley. M W 11-12:15.

10. Microbiology.

General and applied aspects of microbiology. The importance of microbes in aquatic, terrestrial and human environments. Prerequisites: a year of college biology, general chemistry, and permission of the instructor. Professor Corpe. Lec. M W 9-9:50. Lab M W 1:10-3.

12. Cytology.

The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy, including electron microscopy. Prerequisite: a year of biology with laboratory. Permission of the instructor required. Instructor to be announced. Lec. Tu Th 10:35-11:50. Lab. (4 hours) Tu or W 1:10-5.

16. Physiology of Multicellular Organisms.

The physiology of the major organ systems. Function and control of the circulatory, respiratory, digestive, excretory, endocrine, and nervous systems in animals. Emphasis on the higher vertebrates and man. Prerequisites: one course each in biology, physics, and organic chemistry or written permission of the instructor. Professor Chase. Lec. M W F 10.

18. Laboratory in Physiology.

May be taken concurrently with Biology 16 (Physiology of Multicellular Organisms) or following Biology 16. Professor Chase. W or F 12:30-4:30. This course constitutes one laboratory unit.

[20x. Seminars and Laboratory in Animal Behavior. Not given in 1979-1980.]

24. Physiology of Development in Plants.

A study of the processes of growth, differentiation and organization in plants. Major morphogenetic events in the transition from zygote to flowering plant. Hormonal and environmental effects and mechanisms of action. Laboratory utilizes whole plant, organ and cell cultures. Prerequisites: Course 1-2 or the equivalent, one semester of organic chemistry, and written permission of the instructor. Professor Ammirato. Lec. Tu Th 1:10-2:25. Lab. Tu Th 2:30-4:30.

25y. Social Behavior of Animals.

An examination of the major concepts of social behavior such as altruism, degrees of relatedness, parental investment strategies, the ecological correlates of social organization. The course begins with an overview of dyadic behavior—sex, aggression, parental behavior, dominance, territoriality, and communication between animals—and then examines social organization at different phyletic levels from invertebrates to man. Prerequisite: Biology 1-2 or permission of the instructor. Professor Chase. Tu Th 9-10:25.

W3002y. Introduction to Animal Structure and Function.

Professor Bock. Lec. M W F 9. Lab. M 1:10-5, 6:10-10 p.m., Tu W F 1:10-5.

C3014y. Topics in Plant Biology.

Professor Mancinelli, Tu Th 2:40-3:55

W3022y. Developmental Biology.

Professor Harding. M W F 11.

C3032y. Introduction to Genetics, A.

Professor Levinthal. M W F 1:10.

C3038x. Project Laboratory in Eucaryotic Genetics.

Professor Lewis. Lab. M F 1:10-5, plus hours to be arranged.

W3040x. Laboratory in Cell and Developmental Biology.

Dr. Arnold. Lec. Tu 12:30-1:20. Lab. Tu 2:10-6; W 1:10-5. Additional hours to be arranged.

W3041y. Cell Biology and Physiology.

Professor Holtzman. Tu Th 11-12:30 and discussion session Tu Th 12:30-1.

C3044y. Project Laboratory in Cellular Immunology.

Professor Zauderer. Tu Th 1:10-6 plus hours to be arranged.

C3048x. Project Laboratory in the Photoregulation of Biological Processes.

Professor Mancinelli. M F 1:10-5 plus hours to be arranged.

C3052y. Project Laboratory in Molecular Genetics.

Professor Squires. Lab. Tu Th 1:10-5 plus hours to be arranged.

C3064y. Introduction to Microbiology.

Professor Zubay. Tu Th 10:35-11:50.

Biology-Geology W3092y. Urban Ecology.

Professors Broecker, Levinthal, and Simpson. Tu Th 1:10-2:25.

C3094x. The Biosphere.

Professor Mancinelli. Tu Th 4:10-5:25.

Biology-Chemistry C3501x. Biochemistry I.

Professors Cantor and Tzagoloff. M W F 10. Recit. one hour to be arranged.

99x, 99y. Problems in Biology.

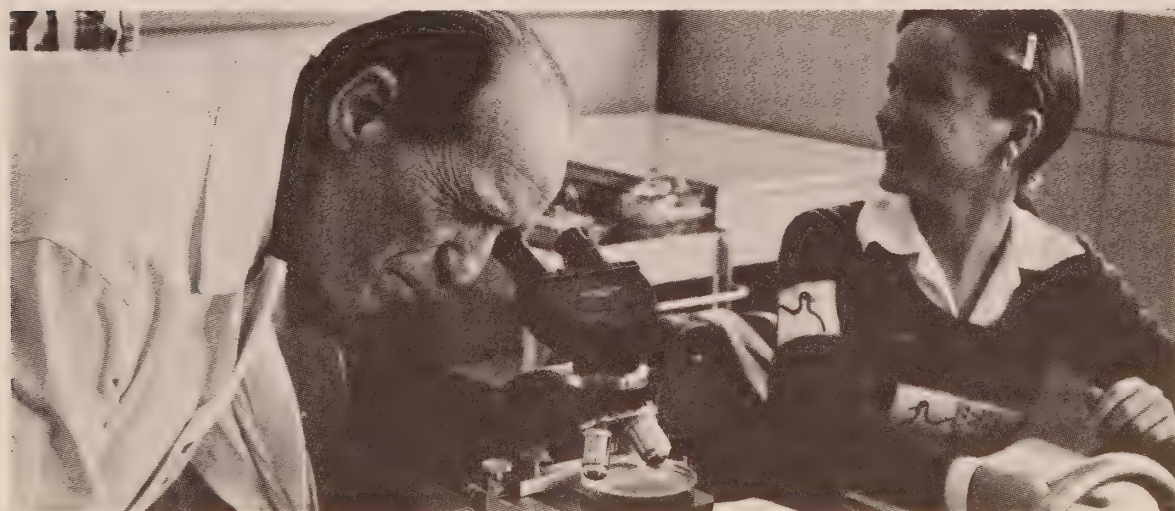
Independent work will be planned to suit the needs of the student after consultation with the instructors. Staff. Hours and credit by arrangement.

G4061x. Biology of Microorganisms.

Morphology and chemical, physical, and antigenic structure of microbial cells; growth, general physiology, genetics, and mechanisms of metabolic control; aspects of pathogenicity and immunity to disease. Prerequisites: one year college biology; one course in biochemistry, and permission of the instructor. Professor Corpe. Tu Th 2:10-3.

G4203x. Theory and Principles of Evolution.

The processes of adaptation, speciation, and major evolutionary changes, and their genetic and ecological causes. Emphasis on fundamental principles as postulated in the current synthetic theory of evolution. Prerequisites: a course in genetics and the permission of an instructor. Professors Bock and Warburton. M W F 11 plus conference hours to be arranged.



Chemistry

Professor

Bernice G. Segal (Chairman; 605 Altschul Hall)

Assistant Professors

Sally Chapman, Barry M. Jacobson, Leslie Lessinger

Lecturers

Grace W. King, Clara Wu

Associates

Dorothy Bheddah, Eva Gans, Julie Goodman, Barbara Goodstein, Olympia Jebejian, Lucille Palmer

Chemistry majors seek to understand the nature of substances and their transformations. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1 and 30 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. The courses required for a major in chemistry are Chemistry 1, 30, 31, 35, 36, 40; 63, 64 and 68 (or 61, 64 and 70); Physics V1103x-1104y; and Calculus I, II, III. Calculus IV is strongly recommended. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

Students may also pursue a major in Biochemistry which supplements the basic courses in chemistry with courses in biology and two of the university courses in biochemistry. A list of major requirements in biochemistry may be obtained from members of the department.

The courses required for a minor in chemistry are Chemistry 1, 30, 31, 33, 38 plus one of the following three: Chemistry 32, 36 or V3059x.

The laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

Variable amounts of laboratory work are possible in several courses, as noted in the course listings. One four-hour laboratory per week counts as a laboratory unit; two such units count as one course credit.

Laboratory science requirement: Students wishing a year of chemistry to satisfy the basic science requirement should take Courses 1 and 2.

Students wishing to fulfill the two year chemistry requirement for medical school should take Courses 1, 30, 31, 32 and 38.

Laboratory Fee: The laboratory fee of \$22 covers the cost of nonreturnable items, chemicals and other consumable supplies, as well as reasonable breakage. In addition, students may be charged for excessive breakage.

1. General Chemistry I.

The particulate nature of matter in various states. Chemical transformations of matter, especially of ionic substances. Properties of gases and kinetic theory, solutions, equilibrium, oxidation-reduction reactions and thermochemistry. Laboratory experience with both qualitative and quantitative techniques. Professor Segal, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation one afternoon: M, Tu, W, Th or F 1:10-2. Laboratory, same afternoon as recitation. M, Tu, W, Th or F 2-5, or Th 10:35-1:35, and if warranted by registration Tu 10:35-1:35. Students in the Th morning lab must choose a M, Tu or W recitation.

2. General Chemistry II.

Kinetics and mechanisms of chemical reactions. Nuclear chemistry and radioactivity, Atomic and molecular structure. The chemistry of selected elements with particular attention to carbon. Selected topics in environmental chemistry and biochemistry. Primarily for majors in fields other than science. Prerequisite: Course 1 or permission of the instructor. Students who have completed Course 30 or its equivalent may not subsequently receive credit toward the degree for Course 2. Professor Lessinger, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: Tu or W 1:10-5.

30. Organic Chemistry I.

Atomic and molecular structure. An introduction to aliphatic and aromatic chemistry with emphasis on modern theories: basic organic reaction mechanisms, stereochemistry and spectroscopy. Laboratory work stresses acquisition of basic techniques. Prerequisite: Course 1. Professor Jacobson and assistants. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, Tu W, Th or F 1:10-5. Problem section W 12.

31. Organic Chemistry II.

Continued treatment of the topics of Organic I with extensions and an introduction to biological compounds and bio-macromolecules. Required for biology majors and premedical students. Prerequisite: Course 30. Professor Jacobson. M W F 10. Problem section Tu 12.

32. Intermediate General Chemistry.

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry 36 or V3059x. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry with applications to analytical chemistry and biochemistry. Optional parallel laboratory work: one afternoon under Chemistry 38. Prerequisite: Course 1 and Organic Chemistry 1. Course 30 may be taken as a corequisite with permission of the instructor. Professor Segal. M W F 10.

33. Modern Techniques of Organic Chemistry Laboratory.

An introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods. Suitable for premedical and biological science students, but not required by all medical schools. Prerequisite: Course 30. Corequisite: Course 31. Professor Jacobson and assistant. Lec. Th 1:10. Lab. one afternoon Tu 1:10-5 or F 1:10-5. This course constitutes one laboratory unit.

35. Modern Techniques of Organic Chemistry Laboratory.

Identical with Course 33 but with a library problem, a short project and additional preparative experiments. Chemistry majors must take this course, but it is not required by medical schools. Prerequisite: Course 30. Corequisite: Course 31. Professor Jacobson and assistant. Lec. Th 1:10. Lab. two afternoons Tu 1:10-5, Th 2:10-5 plus two additional hours to be arranged.

36. Chemical Dynamics.

An introduction to chemical kinetics, the laws of thermodynamics, and a study of ionic solutions and crystals. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisites: Course 30, Calculus I and II, and preceding or parallel, Physics V1103-V1104 and Calculus III. Recommended parallel: Course 40. Professor Chapman, Lec. M W F 10. Problem section W 12.

38. Quantitative and Instrumental Techniques Laboratory.

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided. Suitable for premedical and biological science students. Prerequisite: Course V3059x or corequisite: Course 32 or 36. Professor Chapman and assistant. Lec. Th 1:10. Lab. Tu 1:10-5 or Th 2:10-5. This course constitutes one laboratory unit.

40. Quantitative and Instrumental Techniques Laboratory.

Identical with Course 38 except that a greater variety of experiments are offered, with more individual options. Required of chemistry and biochemistry majors and suitable also for premedical and biological science students. Prerequisite: Course V3059x or corequisite: Course 32 or 36. Professor Chapman and assistant. Lec. Th 1:10. Lab. two afternoons: Tu 1:10-5 and Th 2:10-5.

V3059x. Introductory Physical Chemistry I.

Thermodynamics, the physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry. Intended for majors in biochemistry and biology and premedical students. Prerequisites: Organic Chemistry II, Calculus I and II, and Physics V1103-V1104, or the equivalents. Recommended laboratory: Course 38 or 40. Professor Lessinger. M W F 11. Recitation hour W 12.

V3060y. Introductory Physical Chemistry II.

Kinetic theory, chemical kinetics, transport properties, surfaces, macromolecules. Prerequisite: Course V3059x or permission of the instructor. Professor Reinmuth. M W F 11.

61. Atomic and Molecular Structure.

An introduction to quantum chemistry and spectroscopy. Prerequisites: Course 30, Physics V1103-V1104, and Calculus III. Course 36 and Calculus IV are recommended. Professor Chapman. Lec. M W F 11. Recitation hour Tu 12.

63. Atomic and Molecular Structure.

The lectures of Course 61 plus laboratory experience with various types of spectroscopy. Prerequisites: Course 30, Physics V1103-V1104, and Calculus III. Courses 36, 40, and Calculus IV are recommended. Professor Chapman. Lec. M W F 11. Lab. W 1-5 and if warranted by registration M 1-5. Recitation hour Tu 12.

64. Applied Thermodynamics and Statistical Mechanics.

Thermodynamics of real gases and solutions. Phase equilibria. Kinetic theory of gases. Statistical thermodynamics, partition functions, equilibrium. Prerequisites: Course 30, 36, Physics V1103-V1104, and Calculus III. Course 61 and Calculus IV are recommended. Professor Segal. Lec. M W F 11. Problem section M 12.

68. Advanced Chemistry Laboratory.

Preparation and characterization of inorganic compounds. Experiments in kinetics, spectroscopy, and electrochemistry using instrumental methods. Some experience with computer programming is provided. Prerequisite: Course 36 or V3059x and Course 40 or equivalent. Professor Lessinger and assistant. Lec. Tu 1:10. Lab. one afternoon: M or W 1:10-5. This course constitutes one laboratory unit.

70. Advanced Chemistry Laboratory.

Identical with Course 68 except that twice as many experiments are performed. Professor Lessinger and assistant. Lec. Tu 1:10. Lab. two afternoons: M and W 1:10-5.

99x, 99y. Problems in Chemistry.

Advanced individual laboratory projects for students who have completed the major requirements. Staff. Eight hours by arrangement.

Professor

Jeanette Roosevelt (Program Coordinator; 207 Barnard Hall)

Assistant Professor

Sandra Genter

Associates

Cynthia Novack, Janet Soares

Human movement is perhaps the most ordinary aspect of life. Yet it can be the most ecstatic form of human expression, particularly through dance. Dance heightens the awareness of being and disciplines the body. Thus it complements the development of the powers of the intellect.

The Barnard Dance Program offers studio classes in modern dance, ballet, tap dance, and jazz. In the Physical Education Program there are courses in folk dance and a body movement workshop, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy.

In addition, the Barnard Dance Program affords skilled dancers the opportunity to perform in workshop presentations, in concerts and in programs integrated with drama productions and those of other departments in the College. It sponsors symposiums, master classes conducted by guest artists, and other special events. Interested students should confer with the dance faculty.

The Program in the Arts: Students looking toward a career in dance performance or choreography should see the announcement on the Program in the Arts on page 56-57 and should consult with Professor Roosevelt as soon as possible.

61-62. Dance Workshop I.

Studio work in advanced dance technique, including problems in movement improvisation and the study of dance style through the performance of phrases from dance repertory. Students read from assigned sources, participate in master classes, and keep a journal which is read periodically by the instructor and discussed in conference with the student. Permission of the instructor required. Professor Genter. M Tu W Th F 12-1:30. Conference hour to be arranged.

63. Form in Dance Composition.

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Admission with approval of the instructor. Mrs. Soares. M W 1:30-3.

64. Content in Dance Composition.

Research in the source materials of dance composition and exploration of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Admission with approval of the instructor. Mrs. Soares. M W 1:30-3.

65, 66. History of Dance.

A survey of the development, history, aesthetics, and philosophy of dance. Autumn Term focuses upon dance as ritual, dance in antiquity, folk and ethnic dance forms, and dance in the theater of the East. Spring Term deals with ballet and modern dance from the Renaissance to the present time. Professor Roosevelt. M W F 11.

71-72. Dance Workshop II.

Continued studio work in advanced technique related, in periodic seminars, to concepts in dance as an art form. Materials for the seminar will be drawn from the studio sessions, from readings in the literature by and about dance and dancers, from master classes, and from seeing dance performances live in New York City and on film. Mrs. Soares. M Tu W Th F 12-1:30. Seminar hours to be arranged.

74. Contemporary Choreographers and Their Works.

A seminar in which students examine the form, style, and content of selected contemporary choreographers. Sources include film, video-tape, attendance at rehearsals and concerts, and interviews. Subjects for 1980 are George Balanchine and Merce Cunningham. Dance Staff. F 2:10-4.

[76. Critical Writing on Dance. Not given in 1979-80.]

STUDIO DANCE COURSES

Courses listed below may be offered in fulfillment of the physical education requirement.

30x or y. Beginning Modern Dance. (A)

Miss Novack. Section I. M W 3:10-4. Section II. Tu Th 3:10-4.

31x or y. Low Intermediate Modern Dance. (B)

Section I. Professor Genter. M W 10:30-12. Section II. Miss Novack. Tu Th 10:30-12.

32x or y. Intermediate Modern Dance. (C)

Section I. Miss Novack. M W 4:10-5:25. Section II. Professor Genter. Tu Th 4:10-5:25.

33x or y. Advanced Modern Dance. (D)

Approval of dance faculty required. Section I. Mrs. Soares. M W 12-1:30. Section II. Professor Genter. Tu Th 12-1:30.

35x or y. Beginning Ballet. (A)

Professor Genter. Tu Th 3:10-4.

36x or y. Low Intermediate Ballet. (B)

Miss Ansley. Tu Th F 9-10:25. Combination of two days per week fulfills physical education requirement.

37x or y. Intermediate Ballet. (C)

Miss Ansley. M W F 9-10:25. Combination of two days per week fulfills physical education requirement.

38x or y. Jazz Dance. (B, C)

Prerequisite: Previous instruction in Ballet, Jazz, or Modern Dance. Miss Novack. Tu Th 2:10-3.

46x or y. Beginning Tap Dance. (A)

Miss Novack. M W 2:10-3.

RELATED COURSES

Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.

English 33-34. Play Production. Professor Janes, Mr. Parichy, and Mr. Duke.

Music 1-2. An Introduction to Music. Professor J. Baker and Mr. Schubert.

Philosophy V3803y. Concept of Beauty. Professor Mothersill.

Program in the Arts 1y. Introduction to the Arts.

Professors Doris and Roosevelt.

Director of the Minor Latham Playhouse

Kenneth Janes (231 Milbank Hall), Professor of English

Assistants to the Director

Luz Castaños, Milton Duke, Shirley Kaplan, Janet Soares.

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Professor Janes. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theater Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway.

The Program in the Arts: Those students contemplating a career in theater should see the announcement on the Program in the Arts, pages 56-57, and should consult with Professor Janes at the earliest possible time.

Among the courses concerned with the theater are these, described in detail in the departmental announcements.

DANCE

- 61-62. Dance Workshop I.** Professor Genter.
- 63. Form in Dance Composition.** Mrs. Soares.
- 64. Content in Dance Composition.** Mrs. Soares.
- 65, 66. History of Dance.** Professor Roosevelt.
- 71, 72. Dance Workshop II.** Mrs. Soares.
- 74. Contemporary Choreographers and Their Works.** Dance Staff.
- 76. [Critical Writing on Dance.** Not given in 1979-80.]

ENGLISH

- 13, 14. Dramatic Writing.** Professor Teichmann.
- 21. The Uses of Speech.** Miss Caughran.
- [23], 24. Oral Interpretation of Literature.** Miss Caughran.
- 27. Public Speaking.** Professor Norman.
- 28. Persuasive Speaking.** Professor Norman.
- 29, 30. Introduction to the Theater.** Professor Janes and Theater Staff.
- 31, 32. Contemporary Theater.** Miss Castaños.
- 33, 34. Play Production.** Professor Janes, Mr. Parichy, and Mr. Duke.
- 35, 36. The Actor's and Director's Interpretation of Dramatic Literature.**
Professor Janes.
- 37, 38. Musical Ensemble Theater.** Miss Kaplan and guests.
- 63, 64. Shakespeare.** Professors Robertson and Patterson.
- 69. English Drama: 900-1642.** Professor Patterson.

Drama

[86. **Modern Drama.** Not given in 1979-80.]

FRENCH

16. **Advanced Oral French.** Dr. Levowitz.

[34. **The French Theater of the Seventeenth Century.** Professor Geen. Not given in 1979-80.]

[39y. **Twentieth-century French Theater.** Professor Geen. Not given in 1979-80.]

48. **French Theater: Masterpieces.** Professor Geen.

GERMAN

15. **Goethe.** Professor Sakrawa.

[18. **Schiller.** Professor Bradley. Not given in 1979-80.]

25y. **German Dramatists and Theaters of the Nineteenth Century.** Professor Sakrawa.

[26x. **Modern German Theater.** Professor Bradley. Not given in 1979-80.]

36x. **Goethe's Faust.** Professor Sakrawa.

[46. **German Literature in the Eighteenth Century.** Professor Sakrawa. Not given in 1979-80.]

GREEK AND LATIN

Classical Literature V3123y. Greek Drama and its Influences. Professor Foley.

[Greek V3305x. **Tragedy.** Not given in 1979-80.]

Greek V3307x. Comedy. Professor Coulter.

HUMANITIES

10. **Drama and Ritual.** Professor Janes.

ITALIAN

V3642y. **A Study of Contemporary Arts: The Italian Film.** Dr. Vella

[V3641y. **The Italian Theater and its Contribution to European Theater.**
Professor Lorch. Not given in 1979-80.]

MEDIEVAL AND RENAISSANCE STUDIES

83. **Medieval Drama: Dramatics and Liturgy.** Professors Janes and Schless.

MUSIC

[V1005y. **The Opera.** Not given in 1979-80.]

RUSSIAN

[V1223x. **Modern Slavic Drama in Translation.** Not given in 1979-80.]

[V1229x. **Russian Drama and Theater.** Not given in 1979-80.]

SPANISH

[11y. **Don Juan: Man and Superman.** Miss Castaños. Not given in 1979-80.]

Professors

Duncan K. Foley (Chairman; 405 Lehman Hall), Deborah D. Milenkovitch

Assistant Professors

Alice H. Amsden, Bettina Berch, Andre Burgstaller, Sylvia Ann Hewlett, Cynthia B. Lloyd

Instructor

Hillel Jaffe

Other officers of the University offering courses listed below:

Professors

Philip D. Cagan, Ronald E. Findlay, C. Lowell Harriss, Seymour Melman, Robert Mundell

Associate Professors

Guillermo Calvo, Craciela Chichilnisky, Ronald Grieson, James Nakamura, Carlos Rodriguez, John B. Taylor

Visiting Associate Professor

Carl Riskin

Assistant Professors

Boyn Jovanovic, Lucas D. Papademos, Rosalind S. Seneca, Robert Shakotko, Andrew Weiss

The major program in economics is designed to meet a variety of needs. Some students will major in economics because they desire a general knowledge of the functioning of the economic system. Others will major in economics in preparation for graduate study.

To meet these two different needs the department has designed two tracks, each equal in rigor and course requirements, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields. The track in Political Economy will embrace some techniques of contemporary analysis but emphasizes the rediscovery of the roots and traditions of economics and focuses on interconnections between social forces, political institutions, and economic power. This track will constitute an excellent preparation for a variety of professional schools.

Requirements for the Economics track: At least ten courses in Economics and two semesters of Calculus. The department recommends that students take the calculus section for economics majors. Required courses include Economics 1, 2, V1411, 33, and 35. Three electives shall be selected, at least two of which require courses 1 and 2 as prerequisites. The student shall write a senior essay in Economics 61-62.

Requirements for the Political Economy track: At least twelve courses, including the required courses, Economics 1, 2, 34, 41, 42. Five electives, at least two of which shall be economics courses above the introductory level, shall be selected from two of the following categories: International and Development Theory, Marxian Theory, Comparative Systems, the Political Economy of the United States. The student shall write a senior essay in Economics 61-62. Students should consult Professor Hewlett, the Coordinator of the Political Economy track for 1979-80, for a complete list of the courses which will satisfy the distribution requirements within each category.

GENERAL COURSES. Courses listed under this heading may be taken without previous study of economics.

1x or 1y. Introduction to Economics.

An introduction to basic concepts of economic analysis, with emphasis on the aggregate economy. Subjects covered include the essentials of supply and demand, national income and its determination, United States economic institutions, government finance and monetary economics, economic growth and inequality. Members of the Department. Limited to 40 students in each section.

Economics

- 1x. Section I. M W 1:10-2:25. Section II. M W 4:10-5:25.
Section III. Tu Th 10:35-11:50. Section IV. Tu Th 2:40-3:55.
- 1y. Section I. Tu Th 9:10-10:25. Section II. Tu Th 10:35-11:50.
Section III. M W 11-12:15.

2x or 2y. Introduction to Economics.

An introduction to basic concepts of economic analysis, with emphasis on resource allocation. Subjects covered include the determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems. Economics 1 is not a prerequisite for Economics 2. Limited to 40 students in each section. Members of the Department. 2x. Section I. Tu Th 1:10-2:25. Section II. Tu Th 2:40-3:55. 2y. Section I. M W F 10. Section II. Tu Th 1:10-2:25. Section III. Tu Th 2:40-3:55.

CONTEMPORARY PROBLEMS COURSES.

The analysis of contemporary problems using institutional and traditional approaches. Prerequisite: one course in economics or sophomore standing.

10. Sex, Discrimination, the Division of Labor.

Topics include women's non-market time, the economics of marriage and divorce, women's labor force participation and occupational choice, theories of discrimination, wage and unemployment differentials, the effect of government policy on women's position and some international comparisons. Professor Lloyd. Th 2:10-4.

13. Economic History of the United States.

Economic transformation of America, colonial period to the present; growth in output, technological change, labor and business organization. Prerequisite: Economics 1 or 2. Professor Berch. Tu Th 1:10-2:25.

14. Topics in American Economic History.

Four controversial topics explored in depth; emphasis on methodological alternatives and their analytical implications. Prerequisites: Economics 1 or 2 and Economics 13. Professor Berch. Tu Th 4:10-5:25.

[23. Inflation and Depression: Causes and Consequences. Not given in 1979-80.]

25, 26. Contemporary Economic Issues.

A survey of leading economic issues in present-day American life, including international as well as domestic questions. Either term may be taken separately. Specific topics will vary from year to year.

25. The World Economy.

The impact of multinationals, commodity cartels and international financial institutions in the 1970s. Instructor to be announced. M W 11-12:15.

26. Capitalism in the Modern World.

The organization of production under contemporary capitalism and the resulting class structure. Contemporary mainstream economic analysis is contrasted with that of the institutionalists, traditional Marxists, and current radical schools of thought. Professor Berch. Tu 2:10-4.

32. Money and Capital Markets.

Institutional nature and economic function of money and capital markets, primarily in U.S., but also "euro-currency" credit markets. Each market to be described and related to broad issues of credit flows from savers to investors, interest rate determination, financial liquidity, etc. Professor Burgstaller. Tu Th 4:10-5:25.

SPECIALIZED COURSES

[11y. Poverty and Income Distribution. Not given in 1979-80.]

16x. Government Finance and Fiscal Policy.

Principles of government expenditure and taxation, and the American systems of spending and taxing. Government debt; government finance in relation to the distribution of national income and wealth and to economic growth and stability; and the financial problems of state and city governments. Prerequisite: Courses 1 and 2 or permission of the instructor. Mr. Jaffe. M W F 10.

V1411x. Introductory Probability and Statistics for Economics.

An introduction to probability and statistics with applications to economics. Descriptive statistics; basic probability theory; point and interval estimation; hypothesis testing; basic aspects of regression and correlation analysis; index numbers. Prerequisite: sophomore standing or permission of the instructor. Instructor to be announced. Tu Th 9:10-10:25. Lab. (2 hours) M 2:10-4, Tu 4:10-6, W 2:10-4, 4:10-6.

18. Introductory Econometrics.

An introduction to the specification and estimation of economic relationships using economic theory, data and statistical inference. Single-equation estimation; multiple- and simultaneous-equation systems; econometric analysis of topics such as investment, wage and employment discrimination, etc. Prerequisites: Courses 1 and 2, and 17, or permission of the instructor. Instructor to be announced. M W F 1:10. Lab. (2 hours) Tu 4:10-6, W 2:10-4.

19. Labor Economics.

Factors affecting the allocation and remuneration of labor. Topics include population structure; unionization and monopsony; education and manpower training, mobility and information; sex and race discrimination; unemployment; and public policy. Prerequisite: Courses 1 and 2 or the equivalent. Professor Lloyd. Tu Th 10:35-11:50.

[22x. The Economics of Population. Not given in 1979-80.]

29y. The Economics of Underdeveloped Areas.

A critique of the theories of economic growth which will include dual economy models, historical stage theories, and balanced versus unbalanced growth. Brazil, India, China, Peru, and Cuba will be used to illustrate differing strategies and degrees of success in the development process. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Hewlett. Tu Th 1:10-2:25.

30. Comparative Economic Systems.

Planned, market, and mixed economies. The concept of an economic system. Ownership, resource allocation, focus of decision-making, and motivation. Comparison of theoretical systems, examples of enterprise organization and national economic planning in the Soviet Union, Yugoslavia, Cuba, Sweden, France, and Japan. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Milenkovitch. M W 1:10-2:25.

[31. The Development of Economic Thought, 1770-1970. Not given in 1979-80.]

33. Intermediate Macroeconomic Theory. (formerly 27)

For Economics majors. Professor Burgstaller. Tu Th 9:10-10:35.

34. Intermediate Macroeconomic Theory.

For Political Economy majors. Professor Amsden. M W 1:10-2:25.

35y. Intermediate Microeconomic Theory. (formerly 28)

The behavior of markets, theories of production and cost, the pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Particular emphasis will be given to problem-solving. Prerequisite: Courses 1 and 2. Mr. Jaffe. M W 11-12:15.

41. The Theoretical Foundations of Political Economy.

The intellectual origins of the main schools of thought in political economy. These include: Classical political economy; Marxian economics, Neo-Classicism, Keynesianism, and Monetarism. Particular

attention will be paid to theoretical controversies in twentieth-century political economy. Permission of the instructor required. Professor Hewlett. Tu Th 10:35-11:50.

42. The Policy Applications of Political Economy.

An examination of the major policy perspectives within political economy. These include: "laissez-faire" conservatism, middle-of-the-road reformism, and socialist revolution. These different approaches will be played out by examining the key contemporary policy questions of: inflation, income distribution and poverty, and foreign aid. Permission of the instructor required. Professor Hewlett. Tu Th 10:35-11:50.

56x. Economics-History. History of Women's Work.

This course will focus on women's experience through an analysis of women's work. After identifying the economically productive uses of women's labor (maintenance of the household, childbearing, as well as paid work in the labor market) the dynamics of the changes in these spheres of women's work activity will be examined. The focus of the course will be on the American experience, the approach will be historical and comparative. A substantial background in history and/or economics is recommended. Written permission of the instructor required. Limited to 15 students. Professor Berch. Tu 4:10-6.

61, 62. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay. Members of the Department.

W3413x. Introduction to Quantitative Economics.

The development of fundamental mathematical concepts and techniques applicable to economics and business. An introduction to differential calculus and elementary linear algebra, with an emphasis on their use in micro- and macro-economic theory. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Shakotko. M W F 10.

W3228x. The Urban Economy.

Past and present economic functions of cities. Growth of metropolitan areas. Location theory; theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Braid. M W 4:10-5:25.

W3251y. Industrial Organization.

Organization and structure of American industries and their markets. Competitive behavior, pricing policies, and market performance. Antitrust policy and leading antitrust cases. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Seneca. Tu Th 1:10-2:25.

W3257x. The War Economy. Professor Melman. M 2:10-4, W 2:10-3.

W3271x. Economic Systems and Societal Patterns.

Historical and comparative study of the relations between economic systems and social and political structures with special emphasis on the sources and consequences of inequality in power, wealth, and status. Prerequisite: senior standing or permission of the instructor. Professor Findlay. Tu Th 10:35-11:50.

W3313x. Economic History of the United States.

Economic development of the United States with special attention to the forces and factors responsible for economic growth. Prerequisite: Courses 1 and 2 or the equivalent. Instructor to be announced. M W 2:40-3:55.

W3321x. Economic Development.

The economics of underdevelopment: theories of economic growth; capital accumulation, labor flows, and technological change; roles of agricultural sector, government, and foreign trade and aid. Prerequisite: Courses 1 and 2 or the equivalent. Professor Nakamura. Tu Th 6:10-7:25.

W3411x. Labor Economics.

The labor force and labor markets; education and manpower training; unions and collective bargaining; mobility and immobility; sex and race discrimination; unemployment. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Shakotko. M W 6:10-7:25.

W3412x. Econometrics.

Modern econometric methods: the general linear model and its extensions; simultaneous equations methods and the identification problem; time series problems; forecasting methods. Recommended preparation: a background in introductory calculus and/or linear algebra. Prerequisites: Courses 1 and 2 and Mathematical Statistics G4005, or their equivalents. Professor Dhrymes. Tu 11-12:50 plus hour to be arranged.

W3414y. Introduction to Mathematical Economics.

The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macro-economic models. Mathematical tools are developed as needed. Prerequisite: Courses 1 and 2 and permission of the instructor. Some knowledge of calculus is recommended. Professor Chichilnisky. Tu Th 10:35-11:50.

W3711x or y. Monetary Economics and Policy.

The nature of money and the U.S. monetary system. Monetary theory; monetary policy and how it affects the economy; current problems in the control of inflation. Prerequisite: Courses 1 and 2 or the equivalent. Recommended preparation: Course 27. W3711x. Professor Papademos. M W 6:10-7:25. W3711y. Professor Cagan. M W 11:12-15.

C3718x. Seminar on the Economic and Political Philosophy of Laissez-Faire.

A sympathetic but not uncritical examination of the once predominant but now largely extinct philosophy of laissez-faire. The ideas of Adam Smith, David Hume, J.S. Mill, Frederick Hayek, Milton Friedman, etc. Reasons for the decline of laissez-faire. Prerequisites: Courses 1 and 2 and permission of the instructor. Professor Cagan. Th 7:10-9.

W3861x. Taxation and Government Expenditures.

Theory and practice of government spending: principles of taxation, individual and corporation income, property, commodity and general sales, death and payroll taxation; shifting and incidence; administration. Prerequisite: Courses 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 9:10-10:25.

W3862y. Government Budgeting, Public Debt, Intergovernmental Financial Relations, and Fiscal Policy.

Budgeting and problems of efficiency in governmental spending; intergovernmental financial relations; borrowing, debt management, and fiscal policy for economic stabilization and growth. Prerequisite: Courses 1 and 2. Not open to students who have taken Economics 16. Instructor to be announced. Tu Th 9:10-10:25.

W3904x or y. International Economics.

The theory of international trade: comparative advantage and the factor-endowments explanation of trade; analysis of the theory and practice of commercial policy; economic integration. The balance of payments; adjustment in response to disequilibria; the foreign exchange market; alternative monetary systems. Proposals for reform of the international monetary system. Prerequisite: Courses 1 and 2. Professor Obstfeld. Tu Th 2:40-3:55.

Economics 1 and 2 or their equivalents are prerequisite for all the following courses.

W4205y. The Theory of Imperfect Information.

Professor Weiss. M 2:10-4.

[W4258y. Worker Management. Professor Milenkovich. Not given in 1979-80.]

W4321y. The Latin American Economy.

The structure and behavior of the Latin American economies. Topics include: theoretical controversies over the roots of underdevelopment, agricultural performance, import substitution, trade, and income distribution. Professor Amsden. M 4:10-6.

[W4323y. Economic Organization and Development in Africa. Professor Amsden. Not given in 1979-80.]

W4324x. Economic History of Japan.

Professor Nakamura. W 4:10-6.

W4328x. Economic Development.

The theory and practice of economic planning in the underdeveloped world. Topics covered will include: resource mobilization and foreign aid; capital movements; and industrialization strategies. The approach will be critical and every effort will be used to link the theory to contemporary case examples. Registration limited to 40 students. Permission of the instructor required. Professor Hewlett. Tu 4:10-6.

W4337x. Economic Organization and Development of the Middle East.

Instructor and hours to be announced.

W4430x. Marxist Economic Theory.

A critical examination of Marxist economic theory, using Marx' texts and more recent Marxist writings. The application of Marxist ideas to current economic problems. Topics include: the theory of value; Marx' theory of money; class and exploitation; the expanded reproduction of capital; productive and unproductive labor; rent; the rate of profit. Some previous work on Marxism is desirable but not required. Professor Foley. Tu Th 1:10-2.

W4450y. The Economics of Energy and Natural Resources.

Professor Braid. M 11-12:50.

W4460x. Health Economics.

Professor Shakotko. W 4:10-6.

W4524x. Economic Organization in the Soviet Union and Eastern Europe.

Organization and performance of Soviet-type economics. Pressures for changes. Comparisons of reforms in Yugoslavia, Eastern Europe, and the Soviet Union. Professor Milenkovich. Tu Th 2:10-3.

W4527y. Economic Organization and Development of China.

Professor Riskin. M 2:10-4.



The following program is **directed** by the Education Program faculty:

Assistant Professor of Psychology and Education

Susan Riemer Sacks (Chair; 336B Milbank Hall)

Associates in Education

Giselle Harrington, Katherine Knight Wilcox

This program is **supervised** by the Committee on Education:

President, ex officio

Jacquelyn Anderson Mattfeld

Professor of English

Richard Norman

Professor of History

Annette Baxter

Professor of History and Education, Teachers College, Columbia University

Hazel Hertzberg

Professor of Mathematics

Joan S. Birman

Associate Dean of Columbia College

Michael Rosenthal

Associate Dean for Student Affairs, School of General Studies.

Joseph Kissane

Assistant Professor of Psychology

George Kelling

Instructor in Spanish

James Crapotta

The Education Program is open to students, Barnard, Columbia, and General Studies, who are interested in teaching in elementary or secondary schools and/or preparing for educationally related careers. The Program does not constitute a major; it is taken in conjunction with a major in some other subject. The Education Program will remain an approved curriculum through the academic year 1981-82. Its continuance beyond that year is subject to decision of the Board of Trustees upon recommendation of the Faculty.

A student wishing to teach at the **secondary** level (grades 7-12) must complete: one psychology course (Psychology 27, 29, 30, 32, 34x); one foundations course (History W3051x, Philosophy 84, or Sociology V3225y); and one methods course in the student's specific subject area, taken during the junior year. A student preparing for the **elementary** level (grades n-6) must complete: Education 2 in the Spring Term of the junior year and three other courses, one in psychology (Psychology 27, 29, 30, 32, 34x); one foundations course (History W3051x, Philosophy 84, or Sociology V3225y); and a third course from psychology or foundations.

All students in the Education Program student teach **one semester** during their senior year. During the student teaching semester only, the students must attend the teaching seminar which focuses on the principles and practices of classroom teaching. Student teaching and the seminar should be registered for as Education 3 and 4x in the Autumn Term or Education 3y and 4 in the Spring Term. It is strongly advised that no more than two other courses be taken concurrently with student teaching and the seminar. Persons meeting all Program requirements are eligible for a New York State Provisional License.

Freshman and sophomore students should confer with the Education Program faculty. Juniors who wish to apply for admission to the program should file applications, obtainable in the Education Program office (336 Milbank Hall), at the beginning of the Autumn Term.

Education

Education 2. Approaches to Teaching Reading and Mathematics.

The appropriateness of different methods of teaching reading and mathematics is examined through the integrated experience of working with children in an elementary school and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms. This course should be taken in the Spring Term of the junior year. Prerequisite: Application to the Education Program or permission of instructor. The course is a prerequisite to student teaching in the elementary grades. Ms. Wilcox. Tu 2:10-4

Education 3 or 3y. Teaching in the Elementary or Secondary Schools.

Student teaching involves observation and teaching in elementary *or* secondary schools. Student teaching is done for one semester of the senior year, five mornings per week. Education 3 or 4 must be taken concurrently and are required for teaching certification. Requisite: Admission to Education Program. Professor Sacks, and Associates Harrington and Wilcox.

Education 4x or 4. Seminar in Student Teaching.

The seminar accompanying student teaching provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situations. The context for learning experiences and perspectives on education are discussed in seminar. Teaching skills are developed through individual supervision and conferences. Requisite: Admission to Education Program. Professor Sacks, and Associates Harrington and Wilcox. M 2:10-4.

[History 65. History of Education in the United States. Not given in 1979-80.]

Philosophy 84. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling; "deschooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illich, Neil, and current periodical literature. Not open to freshmen. Professor Blustein. Tu Th 1:10-2:25.

Sociology V3225x. Sociology of Education.

The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the schools and the community. Professor Friedman. Tu Th 2:40-3:55.

English 92. Seminar in the Teaching of English.

Primarily for students interested in the Education Program or preparing for careers in Education. Miss Caughran. W 2:10-4.

[French-Spanish 90. Problems in the Teaching of French and Spanish. Not given in 1979-80. Offered in odd-numbered years only.]

Juniors interested in teaching secondary math, science, or social studies should take the appropriate methods course at Teachers College.

TX 4008x. Mathematical Teaching and Learning: The Formal Operational Stage.

Professor Vogeli. W 7-9.

TK 4040x plus Curriculum Lab. Science Teaching.

(See Educ. Program for specifics.)

TW 4020x. Methods of Teaching Social Studies.

Professor Hertzberg. M 7-9.

Professors

Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette, Joann Ryan Morse, Richard A. Norman, Remington Patterson, David A. Robertson, Jr., Barry Ulanov (Chairman; 408D Barnard Hall)

Adjunct Professors

Joy Chute, Elizabeth Hardwick,¹ Howard M. Teichmann

Associate Professors

Lois A. Ebin, Maire Kurrik, Anne Lake Prescott (Director of Departmental Registration, 401C Barnard Hall), Catharine R. Stimpson²

Assistant Professors

Elizabeth Dalton, Janice Farrar Thaddeus (Director of English A, 419 Barnard Hall)

Associates

Elizabeth Caughran, Marjorie Housepian Dobkin, Quandra Stadler

Instructors

Alfred Bendixen, Constance Colby, Joanna Cole, Marjorie David, Celeste Schenck, Florian Stuber, Timea Szell, Shulamith Talansky

Assistant

Margaret D. Hance

¹Absent on leave, 1979-80.

²Absent on leave, Autumn Term

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of literary works that enrich our cultural heritage.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods. A major program consists of at least ten courses planned in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (93 or 93y), and an introduction to literary works of the Renaissance and the Enlightenment (59-60).

2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. Normally, she will choose these five from courses 53-58 and 63-90. She may select two of the five from courses 3-38.

3. As a senior, she will complete advanced work in two seminars (97, 98). For one of these seminars a student with a particular interest in writing, speech, or theater may substitute an independent project in an advanced course in her special field.

A minor consists of at least five English courses: Chaucer (55) or Shakespeare (63 or 64) or Milton (67); two additional courses in literature before 1900 (53-79); and two electives.

Non-majors may satisfy the general college requirement in literature by electing appropriate courses listed under **LANGUAGE AND LITERATURE**.

Program in the Arts: Students interested in this Program should see the announcement on pages 56-57, and should consult with Professor Ulanov or Professor Janes.

INTRODUCTORY**A. Studies in English: Language and Literature.**

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Sections will adopt various approaches. Topics in recent years have included the significance of the past, the modern tradition,

and the American identity. Prescribed for all freshmen. May not be taken for pass/fail. Professor Thaddeus and members of the Department. Section of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10. M W 2:40-3:55. Tu Th 9:10-10:25, 10:35-11:50, 1:10-2:25, 2:40-3:55.

2x, 2. Special Seminar in Reading and Writing.

For students who want additional work in writing. Frequent conferences. A second section will be provided in the Autumn Term for students whose first language is not English. Permission of the instructor required. May only be taken for pass/fail. Mrs. Colby. Section I. M W 1:10-2. Section II (Autumn Term only). M W 12-12:50.

WRITING

Registration in each course is limited and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Professor Prescott (401C Barnard Hall). Two writing courses may not be taken concurrently. A major with a special interest in writing who has had two writing courses may substitute a third writing course for either courses 97 or 98 in her senior year. She will undertake an independent project in the selected writing course.

3, 4. Structure and Style.

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

I. Exposition.

Techniques of argument and effective expression. Each student will submit a weekly paper for class discussion. Section A. Mrs. Cole. W 12-1:50. Section B. Autumn Term: Mrs. Stadler. Spring Term: Mr. Stuber. M 2:10-4.

II. Fiction and Personal Narrative.

Work primarily on short stories and autobiographical writing. Minimum of forty pages of writing required each term. Professor Dalton. W 3:10-5.

III. (Spring Term) Poetry as Art and Craft.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques, without slighting rhythm and rhyme. Professor Thaddeus. M 2:10-4.

5, 6. The Craft of Writing: Fiction and Non-Fiction.

Each student will keep a writer's notebook to develop the habit of writing regularly, to sharpen observation, and to stimulate recall or imagination; she will expand and shape selected materials into finished works. Mrs. Dobkin. Th 4:10-6.

7, 8 Experiments in Writing.

Advanced work in various forms. Individual conferences with the instructor. Instructor and time to be announced.

11, 12. Story Writing.

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. Professor Chute. Tu 4:10-5. Conference hours to be arranged.

13, 14. Dramatic Writing.

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape and video tape. Field trips to Broadway rehearsals and network radio and television studios. Professor Teichmann. Tu Th 2:40-3:55.

SPEECH

To elect any course in speech a student must secure the written permission of Professor Norman or Miss Caughran. A major with a special interest in speech who has had two speech courses may substitute a third speech course for either course 97 or course 98 in her senior year. She will undertake an independent project in the selected speech course. Her work should include course 21 or 21y and courses in public speaking and oral interpretation.

21 or [21y]. The Uses of Speech.

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Registration limited to 15 students. Miss Caughran. Tu Th 2:40-3:55.

22x. American and British Dialects.

Study of the geographic, social, and vocational dialects of English. Miss Caughran. Tu Th 10:35-11:50.

[23], 24. Oral Interpretation of Literature.

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theater. Spring Term: Miss Caughran. Tu Th 2:40-3:55.

27. Public Speaking.

Study of basic principles of informal and formal speaking with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery. Professor Norman. Tu Th 10:35-11:50.

28. Persuasive Speaking.

Theory and practice of persuasive speaking: the use of evidence and opinion, logic, and audience motivation in the presentation of controversial views and current issues. Professor Norman. Tu Th 10:35-11:50.

THEATER

To elect any course in theater (except course 29, 30) a student must secure the written permission of the instructor. Majors with a special interest in theater should consult with a faculty member of the theater staff concerning courses in theater. A major who has had at least one course in speech and two in theater may substitute a course in theater for either course 97 or course 98. She will undertake an independent project in the selected theater course.

29, 30. Introduction to the Theater.

A survey of historic and modern theater with emphasis upon the origins of theater, the nature of the dramatic act, and the place of theater in society. Special attention is paid to the interrelation of dramatic literature, styles of production, and the organization of theater. Individual and group projects in related research. Class attendance at professional theater productions. Professor Janes, Miss Castanõs, and Theater Staff. Tu 2:10-4.

31, 32. The Contemporary Theater.

A study of the major developments in the contemporary theater, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members. Permission of the instructor required. Miss Castanõs. M 2:10-4. Lab. hours to be arranged.

33, 34. Play Production.

A study of the technical aspects of the theater and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theater. Permission of the instructor required. Professor Janes, Mr. Parichy, and Mr. Duke. Tu Th 2:10-4.

35, 36. Actor's and Director's Interpretation of Dramatic Literature.

The practical study of Renaissance and Restoration dramatic literature for actors and directors. Permission of instructor required. Professor Janes. W 2:10-4. Lab. Hours to be arranged.

37, 38. Musical Ensemble Theater.

A basic course developing the techniques, methods, and skills involved in the creation and performance of original theater material. All the elements of a theatrical presentation will be used. Material created by class members will be developed and performed. The history of popular entertainment, vaudeville, musicals, film and theater revues will be the source material for the discovery of some of the connections between traditional and modern works. Registration limited. Permission of instructor required. Mrs. Kaplan and guest lecturers. Tu Th 10:35-11:50. Lab. hours to be arranged.

LANGUAGE AND LITERATURE

40x, 40. Seminars on Special Themes.

Registration in sections is limited.

40x. (Autumn Term)

[II. Sex, Gender, and Symbols. Professor Stimpson. Not given in 1979-80.]

VI. Explorations of Black Literature.

A study of black expression in America: slave narratives, folklore, and song; works by Chesnutt, Du Bois, and others. Mrs. Stadler. Tu Th 10:35-11:50.

40. (Spring Term)

[I. Ulysses and Its Background. Professor Morse. Not given in 1979-80.]

III. Psychoanalytic Approaches to Literature.

Study of literary expression in the light of psychoanalytic thought; readings in Freud and other psychoanalytic writers, Shakespeare, Keats, James, Kafka, Lawrence, Dostoevsky, and others. Professor Dalton. M W F 1:10.

[IV. The Supernatural in Literature. Professor Prescott. Not given in 1979-80.]

[V. Fable and Fantasy. Professor Prescott. Not given in 1979-80.]

VII. Other Worlds.

Tradition and innovation in the literary treatment of Heaven, Hell, Purgatory, and the Earthly Paradise. Authors include Virgil, Dante, Milton, Wells, Lewis, and Golding. Professor Prescott. M W F 11.

VIII. Sex, Gender, and the City.

A detailed exploration of texts, a majority about New York, that will focus on the relationships among the modern city, the formation of culture, and sex/gender systems. Open to students who have taken English 40x, II, and to those who have not. Professor Stimpson. M W F 10.

41, 42. Major English Texts.

A general view of the variety of English literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the beginning of the twentieth century. Professor Patterson. M W F 10.

53y. Anglo-Saxon.

An introduction to the language, with selected readings in prose and verse. Professor Norman. M W F 10.

35y. Chaucer.

The Canterbury Tales. Professor Ebin. Tu Th 10:35-11:50.

58. Medieval Literature.

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. Professor Ulanov. Tu Th 2:40-3:55.

59-60. The English Colloquium.

Major writers and literary works of the Renaissance and the Enlightenment, examined in terms of leading ideas in those periods. Required of majors in the sophomore or junior year; open to nonmajors if numbers permit.

I. Skepticism and Affirmation.

Humanism, reformation, and revolution: the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation. Autumn Term: Professor Prescott. Spring Term: Professor Kurrik. W 2:10-4.

II. Imitation and Creation.

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style. Profesor Morse. M 2:10-4.

III. Ideas of Order and Disorder.

Form and structure achieved or defeated in the work of art and in the world. The rise of the man of letters and vernacular literature. The drama of self-transformation. Professor Ulanov. Th 4:10-6.

IV. Reason and Imagination.

The relationship of subjective and objective vision; the impact of "new philosophy," exploration, and discovery; the shift from authority to perception and from public to private forms. Professor Ebin. Tu 2:10-4.

63, 64. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. Professor Patterson. M W F 11.

65. The Tudor Renaissance.

Continuities, recoveries, and innovations from Skelton and More to Sidney and Spenser; Humanism, the Reformation, Neoplatonism, courtly and popular wit. Professor Prescott. M W F 1:10.

[66. Seventeenth-century Poetry. Professor Kivette. Not given in 1979-80.]

[67. Milton. Professor Kivette. Not given in 1979-80.]

68. Seventeenth-century Prose.

Thought and style in the prose of Bacon, Burton, Donne, Browne, Milton, and Dryden; the effect of the new science on the literary imagination. Mrs. Cole. Tu Th 10:35-11:50.

69. English Drama: 900-1642.

English drama from its beginnings to the closing of the theaters. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. Professor Patterson. Tu Th 10:35-11:50.

71. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Sterne, Lewis, Austen, Brontë, Dickens, George Eliot, Carroll, and Hardy. Professor Kurrik. M W F 11.

[73. Eighteenth-century Literature, 1660-1740. Professor Thaddeus. Not given in 1979-80.]

74x. Eighteenth-century Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Burns, and Blake. Professor Thaddeus. M W F 10.

76. English Romanticism.

The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. Professor Kurrik. M W F 11.

[77. The Victorian Age in Literature. Professor Robertson. Not given in 1979-80. Interested students should note English-French-Russian V3420y listed below.]

78x. Victorian Poetry and Criticism.

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne; some paintings by the Pre-Raphaelites and others; critical opinions of Ruskin, Arnold, Pater, and Wilde. Professor Robertson. Tu Th 10:35-11:50.

79. American Literature, 1630-1860.

Selected readings from the Puritans to the writers of the American Renaissance. Mr. Bendixen. M W F 9.

80. American Literature, 1860-1945.

Selected readings in poetry from Dickinson to Stevens, in prose from Twain to Faulkner. Mr. Bendixen. M W F 9.

[81. Major American Writers: Romantic Fiction. Not given in 1979-80.]

83. Modern Literature and the Allied Arts.

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, and the motion picture. Professor Ulanov. Tu Th 2:40-3:55.

[85. Modern British and American Poetry. Professor Ulanov. Not given in 1979-80.]

[86. Modern Drama. Professor Ulanov. Not given in 1979-80.]

87y. Major American Writers and Their Foreign Counterparts.

The study of selected nineteenth- and twentieth-century American, European, and English works of prose and poetry. Professor Dalton. M W F 12.

88. The Modern Novel.

Works by Hardy, James, Conrad, Forster, Lawrence, and Joyce. Professor Morse. M W F 12:10.

89y. Post-Modern Literature.

A study of writers since 1945, primarily English and American, and an exploration of concepts of post-modern culture. Readings to include Beckett, Burroughs, Lessing, Mailer, Nabokov, Alice Walker, and others. Professor Stimpson. M W F 1:10.

90x. The English Language: History and Use.

An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. Professor Norman. M W F 10.

92. Seminar in the Teaching of English.

The place of English in the curriculum and the role of the English teacher: grammar, composition, literature, testing, and grading. For students who plan to teach or to produce teaching materials. Miss Caughran. W 2:10-4.

93 or 93y. Critical Writing.

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Registration in each section is limited. Students must file departmental forms with Professor Kurrik (422 Barnard Hall) before completing their programs.

All English majors are required to take Course 93 or 93y before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term. Members of the Department. Autumn Term: Section I. Tu 2:10-4. Section II. W 2:10-4. Section III. Th 2:10-4. Spring Term: Section I. Tu 12-1:50. Section II. Tu 2:10-4. Section III. W 2:10-4. Section IV. Th 2:10-4.

97, 98. Senior Seminars: Studies in Literature.

Required of all majors, these seminars are designed to broaden their knowledge of periods, writers, works, genres, and theories through readings that are new to them. Class discussions, oral reports, and at least two research papers, one in 97 and one in 98. Students must have the written permission of the instructor and of Professor Ebin (401B Barnard Hall).

97. I. Text and Context.

Chaucer and Shakespeare: The metamorphosis of the Troy story from *Troilus and Creseyde* to *Troilus and Cressida* examined in the light of the literary, historical, philosophic, and artistic materials which illuminate this myth. Professor Ebin. M 2:10-4.

II. Studies in Tragedy: The Death of the Hero.

Greek, Elizabethan, classical French, and modern works, read in conjunction with significant theories of tragedy: Aristotle, Nietzsche, Frazer, Freud, and Artaud. Professor Dalton. Th 2:10-4.

III. Studies in Comedy.

The English comic tradition, with emphasis on nineteenth- and twentieth-century writers. Professor Morse. Tu 2:10-4.

IV. The Dramatic Monologue.

Particular attention to poems by Robert Browning and Ezra Pound. Professor Robertson. W 2:10-4.

V. Literary Theory.

The fate of the literary work of art from 1800 to the present in the critical theory and discourse of various interpreters—aesthetic, phenomenologist, formalist, structuralist, semiotic. Professor Kurrik. Tu 12-1:50.

98. I. The Late Middle Ages and the Renaissance.

Professor Prescott. M 2:10-4.

II. The Eighteenth Century

Professor Thaddeus. Tu 2:10-4.

III. Romanticism.

Professor Morse. Th 2:10-4.

IV. Victorian to Modern.

Professor Robertson. W 4:10-6.

American Literature.

Mr. Bendixen. W 2:10-4.

English-French-Russian V3420y. European Prose: 1855-1869.

Morning lectures and discussions: Tolstoy, *War and Peace*; Thackeray, *The Newcomes*; Flaubert, *Madame Bovary*; Goncharov, *Oblomov*; Mill, *On Liberty*; Huxley, selected essays; Renan, *Vie de Jesus*; Turgenev, *Fathers and Children*; Hugo, *Les Misérables*; Dickens, *Our Mutual Friend*; Zola, *Therese Raquin*; Dostoevsky, *Crime and Punishment*; Arnold, *Culture and Anarchy*. Lunchtime: speakers on related topics. Afternoon sessions with one of the three language groups: additional readings and a 20-30 page paper. The French group will hold sessions in French; the Russian, in Russian or English. Prerequisites: permission of an instructor must be secured during the Autumn Term; members of the French and Russian groups must have satisfied the language requirements. Preference will be given to seniors. The course will count as three courses toward the degree. It may count as one of the five electives for majors in English or as a substitute for English 98. Professors Belknap, Rengstorf, and Robertson. Tu Th 9:30-4.

Majors interested in Medieval and Renaissance Literature should note the following Medieval and Renaissance Studies courses: **83. Medieval Drama: Dramatics and Liturgy.** Professors Janes and Schless. M W F 11. **84. Renaissance Humanism: Its Sources, Forms, and Legacy.** Professors Lorch, Prescott, and Grassi. M 4:10-6.

Environmental Conservation and Management

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

Professor of Geography

Leonard Zobler, Chairman

Professor of Biology

Patricia L. Dudley

Professor of Geology

John E. Sanders

Associate Professor of Biology

Frederick W. Warburton

This program acquaints the student with a set of ethical and material issues that are crucial to the survival of modern civilization and begins the development of the means to cope with them. These issues concern the adequacy of the earth's natural resources to sustain an environment of quality when confronted by the pressures of the current urban-technologic-population explosion. Their combined effects threaten the natural environment with profound and possibly irreversible disturbances and question the natural environmental ethics of Western society. Subject to its requirements, the program seeks to respond to the broad array of student interests in the environment which may be preparatory to careers in planning, law, forestry, in wildlife, parks and outdoor recreation management, in teaching environmental protection and health, and in natural history and science.

The goals of the program are: (1) to train and equip students with the requisite skills, values, and attitudes to enable them to participate in the work of designing, establishing, and maintaining a viable human ecologic habitat, and (2) to promote the development of professional and research abilities in environmental science. The concept of the ecosystem lends unity to the multi-disciplinary character of environmental studies.

This academic program is designed around the idea that man's ecosystem is the set of interacting relationships among the physical, biological, and cultural forces that govern the human realm. Coherence is provided by core courses followed by in-depth studies along one of several subject matter or managerial tracks. The core courses are: General Biology (Biological Sciences 1-2), Ecology (Biological Sciences 8), Environmental Science (Geography 1,2), and Conservation Theory (Geography W4114y). In addition, a cluster of conservation courses on field work, readings, lab projects, and internships has been developed. Students may opt to follow a managerial or a scientific program. The core plus five advanced electives, two of which shall be a year seminar, satisfy the major requirements. Examples of specialized paths are: urban ecology, biological conservation, environmental and physical resources, coastal zones, urban and suburban land planning, environmental center operation. Students are encouraged to attend a summer field program in conservation, ecology, or earth science. To receive college credit see Committee Chairman for approval.

[41, 42. Colloquium. Not given in 1979-80.]

51, 52. Environmental Projects.

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. Individual arrangements with a member of the faculty.

69, 70. Seminar.

Reports and discussions of current individual or joint field research culminating in the senior essay. Professor Zobler and Committee Members. Hours to be arranged.

Additional courses in the program are offered by Biological Sciences, Geography, and Geology. For complete description consult department course listings.

Biological Sciences 3. The Biology of Plants.

Biological Sciences 4. Natural History of the New York Area.

Environmental Conservation and Management

[Geography 4. Ecology of Urban Industrial Society. Not given in 1979-80.]

[Geography 30. Environmental Policy. Not given in 1979-80.]

Geography 32. Land Use in Metropolitan Areas.

Geography 33. Environmental Planning and Perception.

Geography 36. Neighborhood Conservation.

Geography 46. Environmental Monitoring.

Geography 61. Urban Parks and Environmental Centers.

[Geography W4011x. Pedology and Soil Resources. Not given in 1979-80.]

Geography W4012x. Hydrology and Water Resources.

[Geography W4912y. Resources of the Seas. Not given in 1979-80.]

Geology 48. Coastal Zone Management.

[Geology W4226y. Continental Shelf Sedimentation. Not given in 1979-80.]

Geology W4927x. Principles of Oceanography.



Experimental College

Experimental College is supervised by the Experimental College Committee:

Coordinator of the Experimental College and Lecturer in Experimental Education

Hester Eisenstein (8A Lehman Hall)

Professor of French

Tatiana Greene

Assistant Professor of Psychology

Peter D. Balsam

Assistant Professor of Economics

Sylvia W. Hewlett

The Experimental College, begun in 1969 by students and faculty, provides a framework for educational experimentation within the College curriculum. By means of individual and group projects, workshops, internships, and seminars, students are encouraged to extend their academic experience into non-traditional areas and beyond the classroom to develop both individual initiative and a sense of collective responsibility.

Students should consult the Coordinator of the Experimental College for more detailed information about Course 1, 2, which emphasizes experiential learning rather than research. In the second semester of the course students may, in some cases, continue January Internships arranged through the Office of Career Services.

1, 2. Experiment in Self-Structured Learning.

Evaluation of the learning process through a student-initiated program of independent study. Students must work with faculty sponsors individually or in a group. Project proposals are due by the final program filing date. Enrollment is limited to 40 students, and no more than two terms of Experimental College 1, 2 may be credited toward the degree. May only be taken for pass/fail. Dr. Eisenstein. W 2:10-4.

3. Contemporary Feminist Thought.

Contemporary feminist thought as set forth in the writings of Elizabeth Janeway, Kate Millett, Juliet Mitchell, and others. The course examines shared assumptions, significant ideological differences, and some broader issues raised by these works. Limited to 25 students. Dr. Eisenstein. M 2:10-4.

4. Issues in Experimental Education.

A theoretical approach to some of the issues raised by the experimental education movement, with emphasis on the "culture" of the traditional classroom—competition, role-playing, authority, "tracking," and other elements—as a model for some other social institutions. Limited to 25 students. Dr. Eisenstein. M 2:10-4.



This program is supervised by the Committee on Foreign Area Studies:

Professor of Chinese and Japanese

John Meskill, Chairman¹

Professor of Anthropology

Abraham Rosman¹

Professors of English

David A. Robertson, Jr.

Barry Ulanov

Professor of French

Serge Gavronsky¹

Professor of History

Chilton Williamson

Professor of Italian

Maristella de Panizza Lorch

Professor of Oriental Studies

Barbara Stoler Miller

Professor of Political Science

Peter H. Juviler

Associate Professor of German

Gertrud M. Sakrawa

Assistant Professor of History

Darline G. Levy

Associate Professor of Spanish

Marcelo Coddou

¹Absent on leave, 1979-80.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in Africa: Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

Asia (Adviser: Professor Miller) See Oriental Studies, page 145.

British Civilization (Adviser: Professor Robertson)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history; (b) four additional courses, of which two must be in English literature; (c) two courses in senior seminar in History or English.

Foreign Area Studies

Italian and Italian-American Studies (Director: Professor Lorch)

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. It includes as an intrinsic dimension a study of the Italian-American experience of yesterday and today and its relation to the present Italian reality.

A major in the program should have or acquire a good knowledge of Italian and if possible of another Western European language. She will choose, with the help of her adviser, a minimum of ten courses from a list provided by the director, at least four of which are in one particular discipline. The following courses will be considered essential: History 18, History W4215, Italian V3333x or V3344y, Italian Studies 1, 2, 4, and 6. Connected with Italian Studies 1, 2, and 4, lectures, symposia, and other activities are organized in which the major will be asked to participate.

The program functions in correlation with the Institute on Western Europe of Columbia University and is administered by an executive committee: Professor Maristella de Panizza Lorch (Italian, Director); Professor F. Colombo (Visiting Lecturer, University of Bologna), Professor Pelligrino D'Acierno (Italian), Professor Donald Puchala (Political Science, Director of Institute on Western Europe), and Professor Edward Malefakis (History).

Italian Studies 1, [2]. Aspects of Italian Contemporary Culture.

A study on change, development, and conflicts in Italian life today and their relation to the European scene. Since the content of this course changes each year, it may be taken for credit in consecutive years. Autumn Term 1979-80: **Popular Culture in Italy.** The purpose of the course is to offer a review, a perspective, and several examples of the "popular culture" in Italy today, and to compare the new set of unofficial, frequently unnoticed or unaccepted set of cultural events, with the "official" culture in the same areas, for the same groups. Professor Colombo. W 4:10-6.

Italian Studies 4. The Italian-American Experience: The Image of the Italian-American.

The course will be a workshop on the Italian-American image in the U.S. today. It will be organized around a number of "projects" that will take into consideration recent books, movies, and political events featuring the Italian image in the U.S. Professor Colombo. W 4:10-6.

[Italian Studies 6. Senior Seminar. Not given in 1979-80.]

Latin America (Adviser: Professor Coddou)

A major consists of the five starred courses and five additional courses, two of which should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V3010y. Native South America.

Anthropology V3029y. The Archaeology of the New World.

[Anthropology W3015x. Contemporary Latin America.]

Art History V3080x. Pre-Columbian Art.

Economics 29y. The Economies of Underdeveloped Areas.

[Economics W4321y. The Latin American Civilization.]

Geography W4201y. Latin America.

History W4779x-W4780y. History of Latin American Civilization.

Political Science G4461x. Latin American Political Behavior.

Spanish 11. Significant Themes of Contemporary Latin American and Spanish Literature.

*Spanish 15, 16. Spanish-American Culture.

*Spanish 31-32. Spanish-American Literature.

*Spanish 34. Latin American Seminar.

Russia (Adviser: Professor Juviler)

A major consists of (a) four years of Russian Language and a reading knowledge of Russian adequate for research in the senior seminar, (b) two courses in Russian or Soviet literature (in translation or Russian), (c) two courses in Russian history, (d) a course in Soviet politics, (e) another course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.),

(f) two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources. One of the non-language courses is to be a colloquium. Specific programs are planned with the adviser on the basis of a major's particular interests and needs.

Art History G4331y. Russian Art.

Economics W4430y. Marxist Economic Theory.

Economics W4524x. Economic Organization in the Soviet Union and Eastern Europe.

Geography W4401x. Economic and Population Geography of the U.S.S.R.

Geography W4940y. Resources of the U.S.S.R.

[History W3310x. History of Russia: 10th Century to Catherine the Great.]

[History W3311y. History of Russia: 1796-1917.]

[History W3965. Intellectual Relations of Russia and Europe: 1815-1941.]

History W3966x. Social and Political Thought and Russian Society from Peter the Great to Lenin.

History W3967y. The Russian Revolutions: 1917-1929.

[History W3975. The Dissenting Tradition: Russian Writers and the State from Tolstoy to Solzhenitsyn.]

History W4310x. History of Russia: 1649-1861.

History W4311y. History of Russia: 1861-1917.

[History W4340y. Russian Science and Society.]

[History W4350. Women in Revolutionary and Soviet Russia.]

History W4361y. Soviet Russia.

Political Science 20. Colloquium on Communism and Revolutionary Change.

Political Science 21. Colloquium on Politics and Social Change in the U.S.S.R.

Political Science W3522y. Communist Political Systems.

Political Science G4487x. The Dynamics of Soviet Politics.

Russian V1224y. Introduction to Russian Culture.

Russian V3333x, V3334y. Introduction to Russian Literature.

[Russian V3461x. Pushkin.]

[Russian V3462x. Gogol.]

Russian V3463x. Tolstoy.

[Russian V3464y. Dostoevsky.]

Russian V3465y. Russian Poetry in the Nineteenth and Twentieth Centuries.

[Russian V3467. Twentieth Century Prose Writers.]

Sociology W4010x. The Structure of Soviet Society.

Western Europe (Adviser: Professor Levy)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, and Spanish-speaking countries, a major consists of ten courses, including (a) two semester courses in basic European history or two other history courses approved by the adviser; (b) two courses in the literature of one country, in the original language; (c) four more courses on the same country, chosen with the help of the adviser; and (d) two courses of senior seminar, usually in History.

The courses listed below are meant to indicate only the foundations on which a full program may be based. For more information, consult the adviser.

[History 11. Main Currents of the Modern European World: Renaissance to the French Revolution.]

History W1150x. Main Currents of the Modern European World: Renaissance to the French Revolution.

History 12. Main Currents of the Modern European World: Waterloo to Today.

History 25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.

[History 26. France in Turmoil: 1789 to Today.]

French 21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

[German 11. Studies in German Literature (in German).]

[German 14. German Literature at the Turn of the Twentieth Century.]

Foreign Area Studies

[History 13. The Italian Renaissance.]

History-Italian V3197x. Dante's World.

[Italian V3221x. Machiavelli, Castiglione, Ariosto, and Tasso.]

English-Italian C3358y. Artistic Theory in the Renaissance.

Italian V3449x-V3450y. Modern Italian Literature.

Spanish 13. The Culture of Spain.

Spanish 18. Literature of the Golden Age.

Spanish 23y. Nineteenth Century Literature, in Spain.

Spanish 25. Contemporary Spanish Literature, Part I.

Spanish 26. Contemporary Spanish Literature, Part II.

Art History 69. French Architecture 1500-1800.

Art History 75 and 76. European Painting Since the Renaissance.

History 91-92. Senior Seminars in European History.



Professors

LeRoy C. Breunig, Serge Gavronsky,¹ Renée Geen (Acting Chairman, 305 Milbank), Tatiana Greene, Maurice Z. Shroder²

Adjunct Associate Professor

Patricia Terry

Lecturers

Micheline Levowitz, Charles Potter

Instructors

Ann Boyman, Lynn Malis, David Nowak, I. Mark Paris, Marie-Claire Picher, Adelaide Russo, Ruth Sussman

¹Absent on leave, 1979-80.

²Absent on leave, Spring Term.

Courses in the French department have a twofold objective: to perfect fluency in the written and the spoken language; and to develop an understanding and appreciation of the literature and culture of France.

New students who have already given evidence of advanced training in French may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade will fulfill the requirement. The others may do so by completing French 4. Note that French 8 does not count toward the satisfaction of the language requirement.

Students who have satisfied the language requirement can take literature courses conducted entirely in French (Course 20x, 20, 21, 22, 23-24, 25-26); courses in which the readings are in French, but with lectures, discussions, and papers in English (47,48); and advanced language Course 6x.

The student majoring in French may select either of the following options:

- A. Language and Literature: Courses 21 and 22, or 23-24; two of the language courses 12, 13, 14, 15, 16; five one-term literature courses numbered 31-46; a one-term seminar numbered 52. Students with honor grades may choose to write a Senior Essay (Course 59, 60, A).
- B. Translation and Literature: Courses 21 and 22, or 23-24; course 14 and two other advanced language courses numbered 12, 13, 15; three one-term literature courses numbered 31-46; and the Senior Project (Course 59, 60, B).

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language or in other subjects which vary with the interest of the student. Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin or German.

All majors are expected to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Students will take the Major Examination (a written critical essay on a prepared question and an individual oral **explication de texte**), unless enrolled in the Senior Project (see 59, 60).

A student minoring in French will take the following courses: 2 advanced language courses (12-16); 3 advanced literature courses (31-46).

LANGUAGE COURSES

All courses except French 8 and French-Spanish 90 are conducted in French.

1-2. Elementary Full-Year Course.

Grammar, reading, composition. Work in the language laboratory is required. Course Chairman: Miss Russo. Section Ia. Miss Sussman. M Tu W Th F 9. Section Ib. Dr. Nowak. M Tu W Th F 9. Section Ic. Miss Boyman. M Tu W Th F 9. Section IIa. Miss Russo. M Tu W Th F 10. Section IIb. Miss Picher. M Tu W Th F 10.

2x. Review of Elementary French.

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Primarily for students who need further instruction to qualify for the intermediate course. Course Chairman: Mrs. Malis. Section 1a. Mrs. Malis. M W F 10. Section 1b. Mr. Paris. M W F 10. Section II. Miss Russo. M W F 11. Section III. Miss Picher. M W F 12. Section IV. Dr. Potter. Tu Th 1:10-2:25.

3. Intermediate Course.

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Prerequisite: Course 1-2, Course 2x, C1101x-C1102y, C1101y-C1102x, or an appropriate score on the placement test. Course Chairman: Dr. Potter. Section Ia. Miss Boyman. M W F 10. Section Ib. Dr. Nowak. M W F 10. Section II. Mr. Paris. M W F 11. Section III. Miss Russo. M W F 12. Section IV. Dr. Potter. Tu Th 10:35-11:50. Section V. Miss Picher. Tu Th 1:10-2:25.

3y. Intermediate Course.

The equivalent of Course 3 but given in the Spring Term. Course Chairman: Mr. Paris. Section Ia. Dr. Potter. M W F 10. Section Ib. Dr. Nowak. M W F 10. Section II. Mr. Paris. M W F 11. Section III. Miss Boyman. M W F 12. Section IV. Miss Sussman. Tu Th 1:10-2:25.

4. French through Literary Analysis.

The study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. Work in the language laboratory is part of the course. Prerequisite: Course 3 or an appropriate score on the placement test. Course Chairman: Professor Greene. Section Ia. Professor Breunig. M W F 10. Section Ib. Professor Greene. M W F 10. Section II. Miss Russo. M W F 11. Section III. Professor Greene. M W F 12. Section IV. Mr. Paris. Tu Th 10:35-11:50. Section V. Miss Picher. Tu Th 1:10-2:25.

4x. French through Literary Analysis.

The equivalent of Course 4 but given in the Autumn Term. Course Chairman: Professor Breunig. Section I. Mrs. Malis. M W F 9. Section II. Professor Breunig. M W F 10. Section III. Professor Geen. M W F 11. Section IV. Miss Sussman. M W F 12. Section V. Professor Greene. Tu Th 9:10-10:25. Section VI. Dr. Nowak. Tu Th 10:35-11:50.

6x. Composition and Conversation.

Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 4 or a satisfactory score on the placement test. Limited to 15 students. Dr. Levowitz. Tu Th 1:10-2:25.

6. Composition and Conversation.

The equivalent of course 6x but given in the Spring Term. Miss Boyman. M W F 11.

8. Elementary French: Rapid Reading and Translation.

Intensive study of French grammar and syntax; vocabulary development; readings and translations, prepared and at sight, of texts in the students' areas of specialization. Limited to seniors. No previous knowledge of French required. Mr. Paris. M W F 10.

[12. **History of the French Language.** Professor Terry. Not given in 1979-80.]

[13. **Advanced Composition and Grammar Review.** Professor Greene. Not given in 1979-80.]

14x. **Advanced Translation.**

Translations of various styles of prose and poetry from French to English. Nonmajors may take the course with permission of the instructor. Professor Terry. Tu Th 9:10-10:25.

15. **Advanced Translation into French.**

Translation from English to French of various styles of prose and poetry. Nonmajors may take the course with permission of the instructor. Professor Geen. M W 1:10-2:25.

16. **Advanced Oral French.**

Study of spoken French. Practice in pronunciation and intonation through conversation and oral **explication de texte**. Work in language laboratory is part of the course. Nonmajors may take the course with permission of the instructor. Dr. Levowitz. Tu Th 10:35-11:50.

[French-Spanish 90. **Problems in the Teaching of French and Spanish.** Not given in 1979-80.]

LITERATURE COURSES

For nonmajors, the literature courses listed in this section will count toward the general requirement; Courses 47, 48, and W4603y are conducted in English.

20. **Special Themes in Modern French Literature: Evil and the Tragic Vision of Life.**

Concepts of good and evil from the seventeenth to the twentieth centuries as reflected in fiction, drama, poems, and essays. The authors represented will include Racine, Rousseau, Hugo, Baudelaire, Gide, Sartre, Camus. Professor Terry. Tu Th 10:35-11:50.

20x. **Special Themes in Modern French Literature: Despair and Resolution.**

An examination of diverse literary reactions to collective crises. Writers will include Sartre, Camus, Mauriac, Malraux, and Beckett. Dr. Levowitz. Tu Th 10:35-11:50.

21, 22. **Masterpieces of Literature from the Middle Ages to the Twentieth Century.**

An examination of the scope and variety of French literature through analyses of the most significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. Prerequisite: satisfaction of the foreign language requirement in French. French 21 may be taken for credit **without** completion of French 22. Autumn Term: Professor Breunig. Spring Term: Professor Geen. M W F 11.

21y. **Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.**

The equivalent of Course 21 but given in Spring Term. Dr. Levowitz. Tu Th 1:10-2:25.

22x. **Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.**

The equivalent of Course 22 but given in Autumn Term. Professor Greene. M W F 11.

[23, 24. **The Culture and Institutions of France.** Professor Gavronsky. Not given in 1979-80.]

31. **The Middle Ages.**

Medieval French literature in its historical and cultural context. Works and authors to be considered include **La Chanson de Roland**, the Tristan poems of Beroul and Thomas, Abélard, Chrétien de Troyes, Marie de France and **La Quête du Saint Graal**. Certain of the texts will be read in Old French. Nonmajors may take the course with permission of the instructor. Prerequisite: Course 21, 22, 23, 24 or permission of the instructor. Professor Terry. Tu Th 10:35-11:50.

[32. **Renaissance and Classical Prose.** Not given in 1979-80.]

33. Renaissance, Baroque, and Classical Poetry.

Language and taste in French society from Marot to La Fontaine. Other authors to be considered include Scève, Louise Labé, Ronsard, Du Bellay, d'Aubigné, the Baroque poets, Corneille, and Racine. Prerequisite: the same as for French 31. Professor Greene. M W F 10.

[34x. **The French Theater of the Seventeenth Century.** Professor Geen. Not given in 1979-80.]

[35y. **Eighteenth-Century French Fiction.** Professor Geen. Not given in 1979-80.]

[37. **Nineteenth-Century French Poetry.** Professor Breunig. Not given in 1979-80.]

38x. The Nineteenth-Century French Novel.

The evolution of the novel, modes of romance and irony, the aesthetics of Romanticism, Realism, and Naturalism. Readings: Hugo: **Notre-Dame de Paris**; Stendhal, **Le Rouge et le Noir**; Balzac, **Illusions perdues**; Flaubert, **L'Education sentimentale**; Zola, **Germinal**. Prerequisite: the same as for French 31. Professor Shroder. Tu Th 9:10-10:25.

39y. **Twentieth-Century French Theater.** Professor Geen. Not given in 1979-80.]

40x. **Twentieth-Century Fiction.** Professor Shroder. Not given in 1979-80.]

41. **Twentieth-Century French Thought.** Professor Gavronsky. Not given in 1979-80.]

42. Twentieth-Century French Poetry.

Major poets and movements from the "Contre-Décadence" to the present. Relations between poets and painters in cubism and surrealism. Prerequisite: the same as for French 31. Professor Breunig. M W 1:10-2:25.

43y. French Women Writers.

A literary and cultural study of poets, prose writers, and influential groups, with emphasis on Marguerite de Navarre, Louise Labé, the **Précieuses**, Madame de Sévigné, Madame de La Fayette, the eighteenth-century **salons**, Madame de Staël, Desbordes-Valmore, George Sand, Colette, Beauvoir, Duras, Rochefort, and Sarrazin. Prerequisite: the same as for French 31. Professor Greene. Tu Th 1:10-2:25.

[44. **Materials and Techniques of French Poetry.** Professor Greene. Not given in 1979-80.]

[46. **Autobiography.** Professor Shroder. Not given in 1979-80.]

47. Mallarmé and Yeats.

Close analysis of selected poems by Mallarmé and Yeats. Consideration of experiments in form and language, the relationship between poetry and ideology, and the various aesthetic aims of Parnassians, Pre-Raphaelites, Symbolists, and Modernists. Readings in French and English; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Shroder. Tu Th 10:35-11:50.

48. French Theater: Masterpieces.

Outstanding plays of the French theater from the Middle Ages to the present. Authors include Corneille, Racine, Molière, Marivaux, Beaumarchais, Hugo, Musset, Claudel, Giraudoux, Anouilh, and Ionesco. Readings in French; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Geen. M W 1:10-2:25.

English-French-Russian V3420y. European Prose: 1855-1869.

An intensive course devoted primarily to the prose fiction of England, France, and Russia from 1855 to 1869. Each day-long session will be composed of one lecture, small discussion groups, and luncheon with an outside speaker. Afternoon study groups will be in French for French majors and partly in Russian for Russian majors. (For additional details see listing on page 83.) The course will not count toward the French major. It will count as three courses toward the degree. Permission of Professor Rengstorf or Professor Robertson required. Professors Belknap, Rengstorf, and Robertson. Tu Th 9:30-4.

SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

52. Apollinaire. Professor Breunig. W 4:10-6.

59, 60. Senior Project.

A. Research into a precise topic of French literature and the preparation of a long essay in French. Open to seniors with honor grades. Students electing a one-year senior project take four one-term literature courses numbered 31-46; they are excused from the major examination; the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. In that case, the written section of the major examination is still required; the thesis defense constitutes the oral section. Members of the department. Hours to be arranged.

B. The presentation and the translation into English of a French text of significant length and literary value. Students taking this course as a one-semester project will take the written section of the major examination; the defense of the translation project constitutes the oral section. Students with honor grades may elect a one-year project; they are excused from the major examination; the defense of the translation project constitutes the oral section.

FRENCH LITERATURE IN TRANSLATION

[70x. The Philosophical Tradition. Professor Shroder. Not given in 1979-80.]

STUDY ABROAD

Conducted at Reid Hall in Paris, 4 rue de Chevreuse, Paris 75006. For further information, consult Professor Roudiez, 513 Philosophy Hall.

INTERMEDIATE INSTITUTE. Open to students, except freshmen, who have completed first-year French or its equivalent.

AUTUMN (15 weeks, September 7-December 12.)

H1201p. Intermediate Course, first half.

Strong emphasis on the spoken language; pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar.

H1202q. Intermediate Course, second half.

Continued emphasis on spoken French; increased emphasis on reading and composition.

H3335q. Masterpieces of French Literature.

Analysis and discussion of major works of Medieval, Renaissance, and Classical literature.

H3445q. French Civilization and Culture.

French art and architecture, illustrating the periods approached through literature in H3335. Fee \$25.

ADVANCED INSTITUTES

Open to students who have completed French 21, 22 or its equivalent.

AUTUMN (15 weeks, September 7-December 12.)

H3442p. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition.

H3446x. Civilization of Modern France.

Literature and ideology, through close reading of texts by Céline, Sartre, Barthes, Malraux.

French-Reid Hall

H3602x. Contemporary French Literature.

Major trends in French thought since 1945, as they appear in poetry, fiction, criticism, and the theater; backgrounds in thought of the pre-war period.

H3604q. Seminar.

Art history of the twentieth century, with emphasis on contemporary art.

SPRING (15 weeks, January 26-May 15.)

H3442y. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition.

H3446y. Civilization of Modern France.

H3602y. Contemporary French Literature.

H3606y. Supervised Study in France.

Special study in the French system, normally in the student's major field, under the supervision of the Institute staff. Courses may be selected from the offerings of the various Paris universities as well as the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. These courses should, where appropriate, include participation in the indicated supplementary *cours de travaux pratiques*.

THE JUNIOR YEAR IN PARIS

The two courses listed below constitute a full year's program. Primarily for juniors sufficiently advanced in French and in their majors (should the major not be French) to be able to profit from the program and particularly from the tutorial (H3997-H3998), in which a thesis is normally written under the direction of a French expert on the student's particular area of interest.

H3991x-H3992y. Supervised Study in France.

Special study under the supervision of the Director of Studies of Reid Hall in Paris. This normally involves work in an individually arranged program, in courses in the various Paris universities, the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. Permission of the major adviser and the Chairman of the Barnard French Department required.

H3997x-H3998y. Supervised Research in France.

Normally this course is open to students only in consultation with and under the supervision of the Director of Studies of Reid Hall in Paris and involves individual work with an established specialist in the student's major field. Permission of the major adviser and the Chairman of the Barnard French Department required.



Professor

Leonard Zobler (Chairman; 334 Milbank Hall)

Adjunct Associate Professor

Beverly Moss Spatt

Lecturers

Toby Berger Holtz

Other officers of the University offering courses listed below:

Professors

William A. Hance, Robert A. Lewis, Kempton E. Webb

Assistant Professors

Colin High, Paul E. King

Lecturer

Samuel N. Goward

GEOGRAPHY

The discipline of Geography studies the human uses of the resources of the earth to assess their impacts on natural earth systems. A recurring theme is the unique ecologies of areal settlement patterns that form cultural biomes, sustainable and non-sustainable. Some specific questions are: Why do cities locate where they do, grow to certain sizes and develop peculiar internal structures? How do cities relate to each other and to their hinterlands? How serious a threat to the survival of Western society are resource depletion and environmental deterioration? Is it possible to develop an affluent world urban-industrial society without upsetting planetary equilibria? Geographers thus are deeply involved in urban and regional planning and natural resource management. The growing scarcities of natural resources, as land, food, energy, minerals, and even space, in relation to population growth and rising living standards, receive much attention.

A fusion of selected aspects of the natural and social sciences is an essential feature of geographic training. The program has four required courses, Geography 1, 2 and 59-60. The latter is a year seminar, during which the senior essay is written, usually based on original field research. The remainder of the major consists of six additional approved courses, tailored to the student's interest. Common interest paths are: natural resources, regional specialization (Africa, Latin America, U.S.S.R.), agriculture, urban planning, cartography and remote sensing, economic geography, environmental geography.

In place of a major examination each student will prepare the senior essay.

Laboratory Science Requirement: Geography 1 and 2 satisfy the laboratory science requirement.

ENVIRONMENTAL CONSERVATION AND MANAGEMENT

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. The particulars of this program will be found on pages 84-85.

GEOGRAPHY

1, 2. Environmental Science.

The global and local dynamics of the natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. The impact of population growth, technology, and urban life-styles on planetary and regional equilibria. Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere; geographical ecology and biome classification. Disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes. Remedial

Geography

measures and planning a sustainable ecology for the future. These courses satisfy the basic science requirement. Permission for laboratory assignment required. Courses may be taken separately or in any sequence with the approval of the Chairman. Professor Zobler and staff. Lec. M W 12. Lab. M 2:10-5, Tu 2:10-5, W 2:10-5, Th 2:10-5.

[3. Agricultural Resources and Rural Regions. Not given in 1979-80.]

[4. Industrial Resources and Urban Regions. Not given in 1979-80.]

[30. Environmental Policy. Not given in 1979-80.]

32. Land Use in Metropolitan Areas.

Environmental effects of alternate land use choices in metropolitan areas and their relations to core-city, satellite-city, spread-city development. Special attention will be given to public and private decisions and conflicts over land zoning. Professor Spatt. W 2:10-4 plus tutorials.

33. Environmental Planning and Perception.

Introduction to planning practice with an emphasis on the environmental quality of the core cities and surrounding suburbs of metropolitan areas. Special topics include housing, waste disposal, open space, neighborhoods, and citizen participation and confrontation. Examples taken from New York City and new towns. Professor Spatt. W 2:10-4 plus tutorials and special projects.

35. The New York Metropolitan Region.

The transformation of the tri-state area from a natural landscape into an urban metropolis. Contemporary geographic anatomy of the metropolitan region; core-city, satellite-city, and suburban interrelations. Internal locational patterns of industrial, commercial, residential, and open space land uses and intraregional traffic flows. Public infrastructural facilities. Subregions of specialized activities and communities. Several required field trips. Professor Spatt. M 3:10-5.

36. Neighborhood Conservation.

A microgeographic analysis of the neighborhood and its environment, morphology, boundaries, demography, spatial patterns and flows. Importance of physical facilities, housing stock, streetscapes and local institutions. Forces responsible for community change, cohesion, and deterioration. Evaluation of renewal measures and the contribution of the neighborhood to the health of the city. Professor Spatt. M 3:10-5 plus tutorials and field trips.

46. Environmental Monitoring.

Principles and instrumentation necessary to monitor the quality of the environment. Design of aquatic, atmospheric, terrestrial, industrial, occupational and consumer product surveillance systems for determining background levels and enforcing legal standards. Field and laboratory "hands-on" experience with sampling problems and the organization of data banks for environmental impact analysis. Permission to register required. Dr. Holtz. Tu 2:10-4 plus project hours to be arranged.

61. Urban Parks and Environmental Centers.

The design and management of park and forest lands for competing multi-uses. Park location, size, site selection, facilities, and services for community needs and regional planning. Demand for outdoor recreation, aesthetic amenities, environmental education, timber and wildlife preservation. Recreational resources of national, state, county, municipal, and private sanctuary parks and forests. Permission of the instructor required. Instructor to be announced. Th 4:10-6 plus field trips to be arranged.

W1019x. Spatial Organization of Society.

An introduction to human geography with an emphasis on the spatial patterns of human activity and the social and economic processes underlying them. Topics will include the flow of information and decision making over space, perception of space, and the location of various forms of economic activity. Professor King. Tu Th 1:10-2:25.

[W4111x. Pedology and Soil Resources. Not given in 1979-80.]

W4112x. Hydrology and Water Resources.

Hydrologic cycle analysis of surface and ground water flows and their application to water management in urban and rural areas. Resource planning for potable supplies, waste disposal, and recreational uses. Case studies of water quality and flood control problems, two one-day field trips, and occasional laboratory sessions. Professor Zobler. Tu Th 3:10-4. Lab. Tu or Th 4:10-6.

[W4912y. **Resources of the Seas.** Not given in 1979-80.]

[W4902x. **Natural Resource Decision Methods.** Not given in 1979-80.]

W4114y. Conservation Theory and Environmental Management.

The study of contemporary conservation issues, as the interaction between expanding demand, technology, environmental quality, limited resources, value perception, and economic or other decision criteria. History of the conservation movement and a review of man-environment models. Trends in environmental law, planning, conflict resolution, and government policy at various geographic scales. A broad range of case studies and impact statements will be used as examples. Professor Zobler. Tu Th 1:10-2.

W3020x. Economic Geography.

An introduction to the study of the economic factors in locational decisions and their relationships to the distribution of world resources and industries. This course will be directed to students who desire a survey of the systematic relationships between economic and spatial distributions, with an emphasis on pertinent economic and geographic theory. Instructor to be announced. M 2:10-4 and third hour to be arranged.

W3071x-W3072y. Quantitative Techniques in Geography.

Theory and techniques of measuring geographic distributions. Descriptive and analytical methods (regression, factor analysis) useful in dealing with areal associations and interactions. Introduction to "packaged" programs useful for displaying and analyzing spatial patterns. Additional selected programs (point pattern analyses, frequency distributions, and taxonomic procedures). Professor King. Tu Th 10:35-11:50.

W4018y. Cartography.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis. A survey of photogrammetry and remote sensing and of modern map production methods. Experience in cartographic drafting, compilation, design, and evaluation. Use of aerial photographs in mapping and as map supplements. Permission of the instructor required. \$6 fee. Mr. Pinther. M 6:10-8.

W4102y. World Energy Perspectives.

A survey of the world's energy position and the spatial patterns and trends of energy resources in terms of their occurrence, production, and consumption; implications viewed from economic, social, and political points of view. Professor Hance. Tu 2:10-4.

W4030y. Cultural Geography.

The concept of culture applied to geography problems. Man viewed as the ecological dominant whose cultural imprint upon the earth's surface may be analyzed as the result of cultural, economic, and physical processes interacting through time. Readings in related fields and some interpretation of air photographs. Professor Webb. W 2:10-4.

W4039y. Medical Geography.

A detailed examination of the mechanisms of diseases and their modes of transmission; the profound effects of disease on settlement patterns, agricultural development, and landscape modification with special reference to major maladies; the influence man has on disease through economic development and manipulation of the environment; special implications of medical care in the United States, including the effects of innovation and distribution of health services delivery. Dr. Baker. Th 6:10-8.

Geography

W4041x. Urban Geography.

Geographic aspects of urbanization; contemporary theories of the economic, social, and spatial structure of cities evaluated in terms of their application to existing patterns. Professor King. M 6:10-7:40.

W4050x. Population Geography.

Emphasis on concepts pertaining to population change. Topics include population policy, population growth, fertility, mortality, migration, select population characteristics, and food and resource problems related to population growth. The impact of population change on society. Professor Lewis. M 4:10-6.

W4071y. Remote Sensing of the Environment.

Introduction to the interpretation of remote sensing images. Interpretation of land systems: vegetation, land forms, and soils. Interpretation of socioeconomic data: settlement patterns, land use, and agricultural systems. Dr. Goward. M 6:10-8.

W4075x. Introduction to Airphoto Interpretation.

Basic techniques and procedures of airphoto interpretation. Special emphasis is placed on the use of airphoto data in the analysis of the physical environment, rural land use, and urban-industrial activity. Dr. Goward. M 10-12:50.

[W4201y. Latin America. Not given in 1979-80.]

W4401x. Economic and Population Geography of the USSR.

Analysis of the Soviet Union in terms of its natural resources, manpower, population, agriculture, environment, extractive industries, manufacturing, and urbanism. Regional economic development and societal impact of the economic geography of the U.S.S.R. will also be emphasized. Professor Lewis. Tu 4:10-6.

W4501y. Africa: A Systematic Geography.

A systematic approach to the geography of Africa, with emphasis on topics relating to economic development. Opportunities and limitations in agriculture, mining, and industry. African demography, migration, and urbanization. Regionalism in Africa. Professor Hance. Tu 6:10-8.

W4010y. The Geography of Hunger and Food Supply.

Worldwide and local perspectives on causes and consequences of hunger. Regional and cross-cultural aspects of food consumption patterns, production parameters, distribution, marketing, and official intervention. Emphasis on methodologies for developing areas, including Brazilian experience and other case studies. Professor Webb. Th 2:10-4.

W4940y. Resources of the USSR.

Evolution and evaluation of the resource bases of the Soviet Union. Emphasis given to the definition and location of resources with respect to areas of economic development and to the impact of resources on future economic development. Dr. Shabad. W 12:10-2.

59-60. Seminar in Geography.

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior essay. Required of senior majors. Professor Zobler. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University and Teachers College are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletins of the Graduate School of Arts and Sciences and Teachers College.

Professor

John E. Sanders (Chairman; 328B Milbank Hall)

Other officers of the University offering courses listed below:

Professors

Wallace S. Broecker, Rhodes W. Fairbridge, Arnold L. Gordon, D. E. Hayes, James D. Hays, John Kuo, John E. Nafe, R. Keith O'Nions

Associate Professors

Richard A. Schweickert, H. James Simpson

Adjunct Associate Professor

James E. Hansen

Assistant Professors

K. J. Marfurt, J. Scott Weaver

Adjunct Professors

Robert Jastrow, William B. F. Ryan

Lecturers

William Collins, David H. Rind.

GEOLOGY

Geology deals with the study of the earth, applying various aspects of all modern sciences, especially chemistry, physics, and biology. The central theme of geology involves the many interwoven reactions which constitute the geologic cycle. The geologic cycle results from the effects of solar energy on the earth and on the organisms inhabiting the earth. In addition, the cycle depends on internal energy from the earth itself, which powers various igneous and tectonic processes. Geology is concerned with an understanding of how the operations of the geologic cycle in various environments through time have shaped the earth's surface and have created the geologic record. In the geologic record are preserved a decipherable history of past environments and of the progression, through time, of the populations of organisms that have inhabited the earth. A pressing modern concern of geology deals with the interactions between man's technologic cycle and the natural geologic cycle.

The first year of study may be selected from two sequences (1) a broad, general introductory course (V1021x, V1022y) or (2) an introductory course emphasizing ocean science (V1046y) and planetary geology (Astronomy-Geology V1044x). A year's work satisfactorily completed in any of the sequences fulfills the laboratory science requirement. With permission of the department a student may enter advanced courses in geology after completing one of these sequences.

Various major options are possible, including but not limited to classical geology, with emphasis on biologic or nonbiologic aspects; geophysics; geochemistry; environmental geology; and Earth Sciences. Geologic concentration in problems of the coastal zone is also possible in Barnard's interdepartmental program on Environmental Conservation and Management.

Students electing any of the major options will take a sequence of courses which will be worked out in consultation with their major adviser. Majors in geology should plan to spend at least one summer in geologic mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required. Students contemplating graduate study in geology or other geosciences should plan their programs to include a reading knowledge of two modern foreign languages (German, French or Russian generally), and a year course in chemistry, physics, and mathematics, statistics, or computer science.

A minor in geology includes five courses approved by the Chairman.

Science Requirement: Any two courses of the following: V1021x, V1022y, Astronomy-Geology V1044x and V1046y can be used to satisfy the science requirement.

ENVIRONMENTAL CONSERVATION AND MANAGEMENT

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W4226y, 48 and TK5081x (Teachers College), and to carry out their research in some coastal project. The core courses and further particulars of the program are found on pages 84-85.

V1021x. Physical Geology.

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the earth's morphology, and of geologic maps to infer the subsurface structure of the earth's crust, and three required field trips to local geologic features: beach trip (Sept. 15 or 16); Edgewater, N.J. (Sept. 28, 29, or 30), and Fort Tryon Park (Oct. 5, 6, or 7). Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) M 2:10-5; Tu 9-11:50, 2:10-5; Th 9-11:50, 2:10-5.

V1022y. Historical Geology.

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, and a required one-day field trip to Catskill, N.Y. (Apr. 25, 26, or 27). A research paper on a geologic topic is due on April 14. Prerequisite: V1021x. Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) M 2:10-5; Tu 9-11:50, 2:10-5; W 2:10-5; Th 9-11:50, 2:10-5.

Astronomy-Geology V1044x. Stars, Planets, and Life.

History of events in the Cosmos leading up to the formation of the solar system and the appearance of life on the Earth; origin of the Universe; birth and death of stars; formation of the solar system; terrestrial planets and giant planets; properties of the Earth, moon, Mars, and Venus from earthbound and spacecraft observations; origin and history of life on Earth; impact of astronomical and geological changes on biological evolution; life and intelligence in the Cosmos; philosophical implications in the synthesis of astronomy, Earth sciences, and biology. Professor Jastrow. Lec. Tu Th 6:10-7:25. Lab. Hours to be arranged.

Astronomy-Geology V1444x. Stars, Planets, and Life: Lectures.

The lectures of Astronomy-Geology V1044x. Professor Jastrow. Tu Th 6:10-7:25.

V1046y. Earth's Oceans and Atmosphere.

The ocean and atmosphere circulation act jointly to distribute over the Earth the incoming solar energy, thus promoting a hospitable environment for most of the Earth. The ocean and atmosphere and their interaction are studied over a wide spectrum of time and space scales with the goal of understanding the climate and weather of both the ocean and atmosphere. Men's attempts at computer simulation of the Earth's climate are discussed, as well as occurrences of ocean/atmosphere/climate anomalies. Recommended preparation: high-school physics, chemistry, and mathematics. Professor Gordon. Lec. Tu Th 10-10:50. Lab. Hours to be arranged.

V1446y. Earth's Oceans and Atmosphere.

The lectures of Geology V1046y. Open to any student who is not offering the course in partial fulfillment of the science requirement for the bachelor's degree. Professor Gordon. Tu Th 10-10:50.

Recommended preparation: high-school physics, chemistry, and mathematics.

W4411y. Principles of Structural Geology.

The structures and structural evolution of divergent-, convergent-, and transform plate boundaries; the structure and origin of mountain belts. Laboratory work consists of the analysis of geological structures in maps, cross sections, hand specimen, and thin section. Students not majoring in terrestrial geology may elect to do additional reading and prepare a term paper rather than attend the laboratory. Pre-

requisites: Geology V1021x and V1022y or equivalents (all students); Geology V4114x and Geology W4701x (students enrolled in laboratory). Dr. Engelder. Lec. Tu Th 10-10:50. Lab. F. Hours to be arranged at Lamont-Doherty.

W4941x. Principles of Geophysics.

The structure of the earth as inferred from geophysical investigation. Principles of measurement and interpretation. Gravity, isostasy, earthquake seismology, refraction and reflection methods, geomagnetism, marine geophysics. Prerequisite: calculus through Mathematics V1202 and physics through Physics C1007. Professor Nate. Tu Th 1:30-2:50 at Lamont-Doherty.

V3522y. Exploration Geology and Mining Geophysics, I.

The geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation. Prerequisite: V1021x, V1022y. Professors Kuo and K. J. Marfurt and Dr. Collins. Hours to be arranged.

W4008x. Introduction to Atmospheric Science.

Basic physical processes controlling structure of the atmospheres of the Earth and other planets; radiative transfer and greenhouse effect; principles of atmospheric dynamics; evolution of the atmospheres; cloud processes; models of the atmospheres of Earth, Mars and Venus. Prerequisite: Advanced calculus or permission of the instructor. Professor Hansen and Dr. Rind. M W 9-10:30.

W4113x. Introduction to Mineralogy, I.

Elementary crystallography and crystal structures, optical properties of minerals, mineral associations and phase equilibria, economic minerals. Lab.: Identification of minerals in hand specimen, chemical and physical tests, and use of petrographic microscope. Given in sequence with W4114y. Prerequisite: V1021x, V1022y, and elementary college physics, and chemistry, or permission of the instructor. Professor Weaver. Lec. Tu Th 11. Lab. Tu 1:10-4.

W4114y. Introduction to Mineralogy, II.

Point-group symmetry and external crystal form, crystal chemistry and crystal structures, principles of x-ray diffraction. Lab.: Determination of optical properties of minerals and identification of minerals using x-ray diffraction techniques. Given in sequence with W4113x. Prerequisite: W4113x, or permission of the instructor. Professor Weaver. Lec. Tu Th 11. Lab. Tu 1:10-4.

W4327x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. The origin of surface features of the Earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology or the instructor's permission. Professor Fairbridge. M W F 11. Lab. W 12-12:50. Additional hour of laboratory by arrangement.

W4009x. Chemical Geology.

Thermodynamics as applied to earth systems. Professor Broecker. Tu Th 4:10-6.

W4883x. Principles of Geochemistry.

Introduction to the origin of the chemical elements; processes responsible for the chemical make-up of the solar system and the Earth; geochemical cycles presently operating in the Earth's atmosphere, hydrosphere, and lithosphere. Professor O'Nions. Tu Th 10:35-11:50.

W4201x. Principles of Sedimentation.

Sedimentary particles and the processes by which these particles originate, are transported, and are deposited. Primary sedimentary structures. Conversion of sediments to sedimentary rocks. Interpretation of sedimentary rocks. Laboratory studies emphasize microscopic study of sediments and sedimentary rocks and megascopic study of primary sedimentary structures. Three one-day field trips to be arranged. Prerequisite: Geology W4113x and permission of the instructor. Professor Sanders. Lec. W 2:10-4. Lab. M 1:10-4.

Geology

W4221x. Principles of Stratigraphy.

Part I: Classical stratigraphy: historical and philosophical foundations of geology, principles of classification and correlation. Part II: Tectonics and sedimentation: geosynclinal theory and orogeny; plate tectonics; analysis of convergent- and divergent plate boundaries. Evaluation of mountain belts in terms of plate-tectonic theory. Prerequisite: W4701 or permission of the instructor. Professor Schweickert. Lec. M W F 10. Lab. hours to be arranged.

[W4226y. Continental-Shelf Sedimentology. Not given in 1979-80.]

[W4661x. Introduction to Paleontology. Not given in 1979-80.]

W4928x or y. Submarine Geology.

A broad survey of the geology of the deep sea; topography, sediments, crustal rocks, tectonic- and sedimentary processes. Prerequisite: V1021x and V1022y or the equivalent. Professors D. E. Hayes and Ryan. Tu Th 11:55-1:10.

W4948y. The Ocean Floor.

History of the ocean floor, with emphasis on the sedimentary processes involved in its evolution. Permission of the instructor required. Professors J. D. Hays, Sanders, and staff. Hours to be arranged.

W4701y. Introduction to Igneous and Metamorphic Petrology.

Compositional characteristics of igneous and metamorphic rocks as indicators of their genesis and evolution. Petrologic aspects of the earth's crust and upper mantle. Development of igneous and metamorphic rocks in a plate-tectonic framework. Students not majoring in terrestrial geology may elect to write a substantial term paper in lieu of the laboratory. Prerequisite: V1021x, V1022y. Recommended: W4113x and knowledge of chemistry. Instructor to be announced. Lec. Tu Th 12. Lab. F 1-4 at Lamont-Doherty.

W4927x. Principles of Oceanography.

Properties of sea water; water masses and their distribution; sea-air interaction influence on the ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of ocean properties; measurement techniques and methods of data processing and analysis. Factors controlling the average concentration and distribution of dissolved chemical species within the sea. Recommended preparation: a sound background in mathematics, physics, and chemistry. Professors Gordon and Simpson. Tu Th 1:10-2:25.

48. Coastal-Zone Management.

Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coast, with emphasis on the coasts in the New York area; mankind's use of coastal zones; problems in management; and governmental and private programs. Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips. Prerequisite: Geography 1, 2; or Geology V1021x, V1022y; or the equivalent. Professor Sanders. F 1:10-3.

60. Seminar in Geology.

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. Students should consult with Professor Sanders at the beginning of the senior year.

COLUMBIA COURSES

The following courses, listed by subdivisions of the Columbia Department of Geological Sciences, are open to qualified students with the permission of the Barnard chairman. Courses in brackets are given only in alternate years, and will not be given in 1979-80. Courses marked with an asterisk (*), which are 2-point courses at Columbia, require special permission and cannot be counted as a Barnard course.

TERRESTRIAL AND MARINE GEOLOGY

W3000 x or y. Tutorial Study in The Earth Sciences.

TERRESTRIAL GEOLOGY

W4049y. World Regional Geology.

W4053x. Geology of the New York Region.

[W4076y. Geologic Mapping.*]

W4222x. Phanerozoic Mountain Belts of North America.

[W4231y. Quaternary Stratigraphy.*]

W4501y. Introduction to Economic Geology.

GEOPHYSICS; SEISMOLOGY AND ROCK MECHANICS

W4415y. Principles of Rock Deformation.

W4521x. Exploration and Mining Geophysics II.

[W4901x. Paleomagnetism.]

W4928y. Submarine Geology.

W4942y. Geophysical Methods.

W4945x. Geophysical Theory, I.

W4946y. Geophysical Theory, II.

W4947y. Plate Tectonics.

PALEONTOLOGY AND PALEOENVIRONMENT

[W4030y. Climatic Change.]

ENVIRONMENTAL GEOCHEMISTRY

[W4885x. The Chemistry of Continental Waters and Air.]

MINERALOGY AND PLANETARY SCIENCE

W4122x. Advanced Mineralogy.

W4130y. Thermochemical Mineralogy.

W4902y. Remote Sensing in Geology.*

W4915y. The Inner Solar System.

OCEANOGRAPHY AND METEOROLOGY

TK5081x. (Teachers College; formerly TK4802x) Coastal Oceanography.

SUMMER COURSES

S3070. Field Research.*

[S4020. Field Geology.]



German

Professor

Brigitte L. Bradley (Chairman; 320B Milbank Hall)

Associate Professor

Gertrud M. Sakrawa

Lecturers

Regina Ayre, Elizabeth A. Minnich

Associate

Marvin Shulman

The courses in the German Department are designed to develop proficiency in all the language skills and to present the cultural and literary traditions of the German-speaking countries: Austria, Germany, and Switzerland.

Students who intend to continue the study of the German language will be placed in the appropriate courses on the basis of their CEEB scores or, if such are not available, on the basis of a placement test taken before registration. The language requirement is fulfilled by the completion of German 4 or 4x. New students who have already demonstrated competence in German may enroll in any of the advanced courses.

The literature courses taught in German are open to all students who have completed German 4, 4x, or the equivalent. There are no prerequisites for the literature courses in translation.

A student majoring in German will plan her program to include German 5 (or the equivalent) and eight literature courses conducted in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of a half hour (in German). With special permission a student may submit a senior essay (Course 62) in place of the written section.

A student with a minor in German will plan her program to include German 5 (or the equivalent), German 11, and three literature courses conducted in German.

Students who elect German as part of a combined major will work out their special program in consultation with the departments concerned. Their German program will include six literature courses conducted in German.

LANGUAGE COURSES

1-2 Elementary Full-Year Course.

Elements of grammar, easy reading, written and oral practice. Five class meetings a week are required and may be chosen as follows: Section I: Mr. Shulman, M W F 9. Section II: Dr. Ayre, M W F 10. Section III: Instructor to be announced, M W F 12. **In addition each student must register in the Department for one of the following sections:** Section I. Tu Th 9. Section II. Tu Th 10. Section III. Tu Th 12.

1y. Elementary Full-Year Course. Part I.

Same as Course 1, but given in the Spring Term. Dr. Ayre. M Tu W Th F 9.

2x. Elementary Full-Year Course, Part II.

Same as Course 2, but given in the Autumn Term. Dr. Ayre. M Tu W Th F 9.

For Elementary Reading Course see Elementary German 7,8.

3. Intermediate Course I.

Close reading and rapid reading, grammar review, practice in speaking and writing. Section I. Professor Sakrawa, M W F 10. Section II. Mr. Shulman, M W F 1:10.

3y. Intermediate Course I.

Same as Course 3, but given in the Spring Term. Mr. Shulman. M W F 10

4. Intermediate Course II.

Study of German based on a variety of readings. Practice in speaking and writing. Section I. Professor Bradley. M W F 10. Section II. Professor Sakrawa. M W F 1:10.

4x. Intermediate Course II.

Same as Course 4, but given in the Autumn Term. Professor Bradley. M W F 10.

5y. Advanced Oral German and Composition.

A variety of short readings as a point of departure for discussions and stylistic exercises. Emphasis on idiomatic usage and syntactical structures in order to develop fluency in speaking and proficiency in writing. Professor Sakrawa. M W F 12.

7, 8. Elementary German: Reading Course.

Autumn: Introduction to the comprehension of written German. A fundamental vocabulary and the essentials of grammar and syntax through extensive reading of simple expository texts. Spring: Reading of materials in the students' areas of specialization in the humanities, social sciences, and the natural sciences. Particular attention will be given to the structural forms encountered when translating German scholarly texts. No previous knowledge of German required for German 7. Mr. Shulman, M W F 12.

LITERATURE COURSES

The literature courses listed below are conducted in German. For non-majors they will count toward the general requirement. Prerequisite: Course 4, 4x, or the equivalent. Examinations are written in English. Papers may be written in German or in English. **For courses conducted in English, see GERMAN LITERATURE IN TRANSLATION, courses 50, 52, 54, 55, and 56.**

11. Studies in German Literature.

Introduction to German literature and civilization. Selected works from the eighteenth to the twentieth century. Readings include plays, narratives, and poems. Professor Bradley. M W F 11.

[14. **German Literature at the Turn of the Twentieth Century.** Professor Bradley. Not given in 1979-80.]

[15y. **Goethe.** Professor Sakrawa. Not given in 1979-80.]

[16. **German Romanticism.** Professor Sakrawa. Not given in 1979-80.]

[18. **Schiller.** Professor Bradley. Not given in 1979-80.]

25y. German Dramatists and Theaters in the Nineteenth Century.

Works by major dramatists: Kleist, Büchner, Grillparzer, Nestroy, Hebbel, Wagner. Influential theaters, their traditions and audiences: Weimar, Vienna, Bayreuth. Professor Sakrawa. Tu Th 10:35-11:50.

[26x. **Modern German Theater.** Professor Bradley. Not given in 1979-80.]

[27y. **German Prose Writings from Heine to Nietzsche.** Professor Sakrawa. Not given in 1979-80.]

28. Contemporary German Prose Fiction.

Trends in narrative writing. Analyses of works by authors such as Böll, Andersch, Frisch, Grass, Wolf, Handtke. Professor Bradley. M W F 11.

36x. Goethe's Faust.

An intensive study of Goethe's Faust, Part I and II. Professor Sakrawa. M W 1:10-2:25.

[45. **Literary Traditions in the Times of the Medieval Empire.** Professor Bradley. Not given in 1979-80.]

[46. **German Literature in the Eighteenth Century.** Professor Sakrawa. Not given in 1979-80.]

61. Colloquium. Thomas Mann.

A study of *Buddenbrooks*, *Der Tod in Venedig*, and *Der Zauberberg*. Professor Sakrawa. Tu Th 10:35-11:50.

62. Senior Essay.

The topic must be related to one of the literature courses that the student has completed in the department. Regular consultations with the instructor at hours to be arranged.

GERMAN LITERATURE IN TRANSLATION

[50. **Kafka and Freud.** Not given in 1979-80.]

[52. **German Intellectual History. Modern Reinterpretations of Four Western Cosmologies.** Not given in 1979-80.]

54. German Intellectual History: Thinking, Morality, and Action.

An introduction to the work of Hannah Arendt set within the modern German treatment of the theme of *praxis*, action, by Kant, Hegel, Marx, and Jaspers. Reading from Arendt include: *The Human Condition*, *Between Past and Future*, *Men in Dark Times*, *Eichmann in Jerusalem*, *The Origins of Totalitarianism*, "Thinking and Moral Considerations." Supplementary readings include selections from the philosophers relevant to topics such as the relation of thought to moral action; definitions of freedom; the public and private realms. Reference will be made to the works of Plato and Aristotle as they were understood by the thinkers covered. Dr. Minnich. Tu Th 9:10-10:25.

55. Major Works of German Literature and Thought.

A study of major literary works of the Middle Ages, the Enlightenment, Storm and Stress, Classicism, Romanticism, and 19th century Realism. A knowledge of German is not required. Dr. Ayre. Tu Th 1:10-2:25.

[56. **Modern German Literature.** Not given in 1979-80.]

Medieval and Renaissance Studies 80. Myth and History. Advanced Seminar.

The Courts of the Capetians and Hohenstaufen 1150-1250. An exploration of the origins and dimensions of French and German culture in the High Middle Ages through historical reality and fiction. Professors Bradley, Terry, and Wemple. Tu 1:10-2:50, Th 1:10-2.



Professor

Helen H. Bacon¹

Associate Professor

Lydia H. Lenaghan (Chairman; 215 Milbank Hall)

Assistant Professors

Helene P. Foley, Rolly Phillips

Instructor in Modern Greek

Dorothy Grégory

Other officers of the University offering courses listed below:

Professors

Coleman H. Benedict, Alan Cameron, Steele Commager, Jr.,² James A. Coulter, Leonardo Tarán¹

Associate Professor

Peter R. Pouncey

Assistant Professors

Roger S. Bagnall, Robert Brown, W. Thomas MacCary,¹ Matthew Santirocco

¹Absent on leave, 1979-80.

²Absent on leave, Spring Term.

The objectives of the department are a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. Courses in ancient art, archaeology, history, philosophy, religion, and linguistics are strongly recommended.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek W4319x and either Greek-Latin 61, 62 or Greek W4105x-W4106y.

A minor in Greek: Five courses above the elementary course.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin W4319x and either Greek-Latin 61, 62 or Latin W4105x-W4106y.

A minor in Latin: Five courses above the elementary course.

A combined major in Greek and Latin may be arranged for qualified students on consultation with the major adviser and the chairman. Normally a combined major will consist of a complete major in one language and five courses above the elementary level in the other and Greek-Latin 61-62 if it is offered.

Students who complete Greek or Latin V3998x or y with distinction, and whose other work in the major is of sufficiently high quality, will be eligible for the degree with honors.

For the major in Ancient Studies see page 42.

Foreign Language Requirement for the Degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11 and 12 or Latin 3 and 4, or one semester above Greek 12 or Latin 4 (or the equivalent Columbia courses); or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Only Greek courses numbered 3305 and above and Latin courses numbered 3012 and above will satisfy the General Requirement in literature.

The Greek and Latin Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. Additional details are available from the department chairman and the director of development.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome

Greek and Latin

Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the general requirements.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Students may fulfill the foreign language requirement in Modern Greek by completing Modern Greek 4.

CLASSICS IN TRANSLATION

Classical Literature 32x. Classical Myth.

A survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myth in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). Professor Lenaghan. M W F 11.

Classical Literature V3123y. Greek Drama and Its Influences.

The evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome. Relation of these forms to later European dramatic forms. Theories of comedy and tragedy including those of Aristotle. The production of plays. Professor Foley. M W F 11.

[**Classical Literature V3201x. The Social and Political Ideas of Plato.** Not given in 1979-80.]

[**Classical Literature W4201y. The Ancient Epic and Its Influence.** Professor MacCary. Not given in 1979-80.]

Classical Literature W4300x. The Classical Tradition.

Emphasis on the social, political, intellectual, and religious context in which epic, lyric, tragic, and comic poetry originally developed in Greece, also consideration of Roman adaptations and their influence on modern poets. Professor Santirocco. M W 6:10-7:25

[**Classical Literature W4500y. Latin Literature in Translation.** Not given in 1979-80.]

[**Classical Civilization V3155x. Politics and Political Theory in Classical Athens.** Professor Coulter. Not given in 1979-80.]

[**Classical Civilization V3156y. Daily Life of the Ancient Romans.** Not given in 1979-80.]

[**Classical Civilization V3158x. Women in Antiquity.** Not given in 1979-80.]

[**Classical Civilization V3159x. Wealth and Poverty in Greece and Rome.** Professor Bagnall. Not given in 1979-80.]

[**Classical Civilization V3160y. Roman Religion.** Professor Lenaghan. Not given in 1979-80.]

[**Classical Civilization V3161x. The Lamp of Experience: The Role of the Classics in 17th and 18th Century America.** Professor Lenaghan. Not given in 1979-80.]

Classical Civilization V3162y. Ancient Law.

Greek and Hellenistic legal systems, Roman law until the time of Justinian. Development of the law, legal codes as an expression of the nature of society which produced them. Professor Bagnall. M W 1:10-2:25.

Classical Civilization V3163x. The Greek Historical Tradition.

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance. Analysis of epic, philosophical, and historical texts. Professor Pouncey. M W 1:10-2:25.

GREEK LANGUAGE AND LITERATURE

1-2. Elementary Full-Year Course.

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Professor Foley. M W F 9:35-10:50.

W1101x-W1102y, W1101y. Elementary Course.

Equivalent to Course 1-2. W1101x-W1102y. Professor Bagnall. M W F 11-12:15. W1101y. Instructor to be announced. M W Th 6:10-7:25.

11. Prose and Poetry.

Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. Professor Phillips. M W F 10.

W1201x. Prose and Poetry.

Equivalent to Course 11. Professor Tarán. M W 1:10-2:25, Th 10.

12. Selections from Homer.

Prerequisite: Course 11 or permission of the instructor. Professor Foley. M W F 1:10.

W1202y. Homer.

Equivalent to Course 12. Professor Benedict. M W 11-12:15, Th 10.

[V3305x. Tragedy. Not given in 1979-80.]

[V3306y. Historians. Not given in 1979-80.]

V3307x. Comedy.

Aristophanes' *Peace* and *Clouds* will be read in Greek. The remaining plays will be read in English translation. Prerequisite: Courses 11 and 12 or their equivalents. Professor Coulter. M W 2:40-3:55.

V3308y. Philosophy.

Plato's *Meno*. A detailed study of the philosophy and the literary aspects based on a close reading of the dialogue. Prerequisite: Course 11 and 12 or their equivalents. Professor Taran. M W 1:10-2:25.

V3309x. Selections from Greek Literature, I.

Since the content of this course changes each year, it may be taken in consecutive years. Euripides' *Bacchae* will be read and interpreted in relation to the cultural context—political, religious, and artistic—in which it was composed. Special attention will also be given to meter and to the history and practice of Greek theater production. Prerequisite: Courses 11 and 12 or their equivalents. Professor Foley. M W F 11.

V3310y. Selections from Greek Literature, II.

Since the content of this course changes each year, it may be taken for credit in consecutive years. Plutarch's *Alcibiades* and *Alexander*. Prerequisite: Courses 11 and 12 or their equivalents. Professor Pouncey. Tu Th 1:10-2:25.

[W4034x. Thucydides. Professor Tarán. Not given in 1979-80.]

W4139x. Greek Syntax.

The writing of sentences and connected passages in Greek. Prerequisite: at least four terms, or the equivalent, of Greek. Professor Coulter. Th 11-12:50.

V3997x or y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Greek Literature.

A program of research in Greek literature, with the composition of a paper embodying results. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

W4105x-W4106y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D. Prerequisite: at least two terms of Greek beyond Courses 11, 12. W4105x. Professor Foley. W4106y. Professor Coulter. Tu 4:10-6 and a third hour to be arranged.

Greek and Latin

[Greek-Latin 61y, 62x. **Comparative Readings in Greek and Latin Literature.** Not given in 1979-80.]

LATIN LANGUAGE AND LITERATURE

1-2. Elementary Full-Year Course.

Grammar, composition, and reading. Course 1 is normally prerequisite to Course 2. Course 2 may be taken without Course 1 by permission of the instructor. It includes a complete review of grammar and syntax. Professor Phillips. M W F 11-12:15.

W1101x-W1102y, W1102x-W1101y. Elementary Course.

Equivalent to Course 1-2. W1101x-W1102y. Section I. Professor Benedict (Autumn Term). Professor Brown (Spring Term). M W F 11-12:15. Section II. Professor Santirocco. M W F 2:40-3:55. Section III. Instructor to be announced. M W Th 6:10-7:25. W1102x-W1101y. Section I. Instructor to be announced. M W F 1:10-2:25. Section II. Instructor to be announced. M W Th 6:10-7:25.

3. Cicero: Selections.

Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Phillips. M W F 1:10.

W1201y. Cicero.

Equivalent to Course 3. Instructor to be announced. Tu Th 4:10-5:25, W 5.

4. Vergil. Selections from the *Aeneid*.

Prerequisite: Course 3, or two or three years of high school Latin. Professor Phillips. M W F 10.

W1202x. Vergil.

Equivalent to Course 4. Section I. Professor Commager. M W 2:40-3:55, Th 10. Section II. Professor Pouncey. M W 6:10-7:25, Th 10.

W1203y. Ovid: Selections from *Metamorphoses*.

Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Brown. M W 2:40-3:55. Th 10.

V3012x or y. Lyric Poetry.

Selections from Catullus and Horace. Prerequisite: Course 4, or four years of high school Latin. V3012x. Professor Brown. M W 1:10-2:25. V3012y. Professor Phillips. M W F 1:10.

33y. Medieval Literature.

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Prerequisite: three semesters of college Latin or permission of the instructor. Professor Lenaghan. M W F 11.

[Latin-Medieval and Renaissance Studies 10. **The Vulgate.** Professor Lenaghan. Not given in 1979-80.]

[V3305x **Historians.** Not given in 1979-80.]

[V3306y. **Roman Satire.** Not given in 1979-80.]

V3307x. Elegiac Poetry.

Selections from Tibullus, Propertius, and Ovid. Prerequisite: Course V3012 or the equivalent. Given alternately with Latin V3305. Professor Commager. M W 4:10-5:25.

V3308y. Philosophy.

Selections from Lucretius; attention to the Hellenistic background of Roman philosophy and to the philosophic writings of Cicero and Seneca. Prerequisite: Course V3012 or the equivalent. Given alternately with Latin V3306. Professor Benedict. M W F 10.

V3309x. Selections from Latin Literature, I.

Since the content of this course changes each year, it may be taken for credit in consecutive years. The confrontation of the Pagan and Christian worlds: selected readings from Ambrose, Jerome, Augustine. Prerequisite: Course V3012 or the equivalent. Professor Lenaghan. M W F 10.

V3310y. Selections from Latin Literature, II.

Since the content of this course changes each year, it may be take for credit in consecutive years. Selections from Tacitus' *Annals* 13-16, the reign of Nero. Prerequisite: Course V3012 or equivalent. Professor Cameron. M W 11-12:15.

W4139x. Latin Syntax.

The writing of sentences and connected passages in Latin. Prerequisite: at least four terms, or the equivalent, of Latin. Professor Benedict. Th 11-12:50.

V3997x or y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Latin Literature.

A program of research in Latin literature, with the composition of a paper embodying results. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

W4105x-W4106y. History of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D. Prerequisite: at least two terms beyond Course V3012. W4105x. Professor Commager. Tu Th 4:10-5. W4106y. Professor Lenaghan. F 1-3. Third hour to be arranged.

(Greek-Latin 61y, 62x. Comparative Readings in Greek and Latin Literature. Not given in 1979-80.)

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

1-2. Elementary Full-Year Course.

Introduction to Demotic Greek. Emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading. Mrs. Gregory. Tu Th 2:30-4

3. Intermediate Course I.

Study of more complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis. Grammar and syntax review; conversation; short weekly compositions. Prerequisite: Course 1-2 or the equivalent. Mrs. Gregory. Tu Th 4:10-5:25.

4. Intermediate Course II.

Selected readings from Modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. The selections will include poems by Cavafy, Seferis, and Ritsos; short stories by A. Samarakis, Galatea Sarandi and others. While this course is a more systematic introduction to Modern Greek Literature than Greek 3, the improvement of the student's language is still a primary goal. Prerequisite: Course 3, or the equivalent, and permission of the instructor. Mrs. Gregory. Tu Th 4:10-5:25.

[21. Medieval and Early Modern Greek Literature. Not given in 1979-80.]

[22. Modern Greek Literature. Not given in 1979-80.]

Health and Society

The Health and Society Program is supervised by an Executive Committee:

Samuel R. Milbank Assistant Professor of Health and Society

Nicholas Rango, Chairman

Professor of Sociology

Bernard Barber

Adolph S. and Effie Ochs Professor of History

Annette Baxter

Director, The Robert Wood Johnson Clinical Scholar Program

John C. Beck

Professor Emeritus of Medicine

Andre Cournand

Professor of Physics

Richard Friedberg

A. Barton Hepburn Professor of Economics

Eli Ginzberg

University Professor

Robert K. Merton

Vice President for Academic Affairs and Dean of the Faculty

Charles S. Olton

Professor of Epidemiology

Zena Stein

Health and Society is designed to introduce students to contemporary issues and problems in the field of health care. The primary objective of this interdisciplinary program is to present substantive matters from medical, social science, and humanistic perspectives. The program, therefore, emphasizes the social context of personal and public health.

Because psychosocial aspects of medical practice are stressed, Health and Society courses will be useful to students in the humanities and social sciences as well as to premedical, public health, and nursing students.

Students may neither major nor minor in Health and Society at this time. The courses fulfill the social science component of the general requirement for graduation.

1. Health and Society: An Introduction to Fundamental Concepts of Clinical Medicine and Public Health.

Historical and cultural overview of medicine and public health; changing definitions and measures of health and illness; scientific and nonscientific bases of medical practice; criteria of judgment in diagnosis and treatment; general concepts of research. Science background not required. Professor Rango. M W 2:40-3:55.

4. Health and Society: Critical Issues in the Sociomedical Sciences.

Introduction to concepts of psychological and social factors of disease and its treatment; illness and life change; responsibility for health: professional, social, and personal. Science background not required. Professor Rango. M W 2:40-3:55.

Professors

Annette K. Baxter (Chairman; 412 Lehman Hall), Maristella Lorch (Italian), Chilton Williamson

Associate Professors

Robert A. McCaughey, Charles S. Olton, Suzanne F. Wemple

Assistant Professors

John W. Chambers, Darline G. Levy, John F. Santore

Other officers of the University offering courses listed below:

Professors

J.M.W. Bean, Stuart Bruchey, Istvan Deak, John A. Garraty, Henry F. Graff, William V. Harris, Graham W. Irwin, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Walter P. Metzger, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, J. W. Smit, Morton Smith, Fritz Stern, Alden T. Vaughan, Isser Woloch, Marcia Wright.

Visiting Professor

Gyorgi Ránki

Adjunct Professor

Arthur Hertzberg

Associate Professors

Richard Bulliet, Sheila Fitzpatrick, Andrzej Kaminski

Visiting Associate Professor

Joseph Dauben

Assistant Professors

Roger S. Bagnall (Greek and Latin), David Crew, Gary De Krey, Ruben Fernades, Paula Hyman, Hugh Neuberger, Peter Onuf, Rosalind Rosenberg

Visiting Assistant Professors

Brooke Larson, Marc Saperstein

Lecturer

Sheila Biddle

Preceptor

John Traficonte

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society—his failures and his achievements—and to acquire a sense of the relevance of the past to the present.

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The requirements for a major in history are a minimum of eleven courses distributed as follows:

1. At least six courses in an area of concentration. Two of the six courses must be the senior research seminar in which the student will write a senior essay. While history majors usually concentrate on European or American history, they may, upon approval of the chairman, concentrate in any field of particular interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.
2. At least three history courses outside the field of concentration.
3. At least two seminars, one of which may be an Introductory Seminar.

History

Note: Two courses of the eleven may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of her major adviser.

A minor in history requires five courses, of which one must be outside the area of concentration and one must be a seminar.

No special permission is necessary for Barnard College students to register for lecture courses listed in this catalogue. Full course descriptions of Columbia College courses will be found in the Columbia College catalogue. Written permission of the instructor is required for those wishing admittance to all seminars. Application forms for admission to Columbia seminars must be picked up from the departmental office, 523 Fayerweather, and submitted to the instructor. Meeting arrangements and structure of each seminar will be announced by the instructor at the beginning of the course.

Columbia College students may not register for Barnard Senior Research Seminars.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the Chairman of the Barnard department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.

LECTURES. ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

W1005x. 1200 B.C. to Alexander.

Professor Smith. Tu Th 5:30-6:45.

W1006y. The Ancient World from Alexander to Theodosius.

Professor Harris. Tu Th 2:40-3:55.

W4017y. Magic in Greek and Roman History.

Professor Smith. Tu Th 5:30-6:45.

W4030y. Civilization and Society in Classical Greece.

Professor Bagnall. M W 4:10-5:25.

3. The Early Middle Ages: 300 to 1050.

The fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and the emergency of Europe as a cultural unit. Professor Wemple. Tu Th 10:35-11:50.

4. The High Middle Ages: 1050 to 1450.

The social environment, political institutions, church history, thought and science, from the Gregorian Revolution to the Renaissance. Professor Wemple. Tu Th 10:35-11:50.

W4203x. The Medieval Town: Layout, Planning, and Society.

Professor Mundy, W 6:10-8 plus hour to be arranged.

W4425x-W4426y. History of Poland-Lithuania and the Ukraine, from the 10th Century to the Present.

Professor Kaminski. Tu 9-10:50.

History-Italian V3197x. Dante's World.

The historical background of Dante's political, social, and ethical thought and literary analysis of its poetical rendering. Major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*. Development of visual arts and ideas especially in the painting of Giotto. Guest lecturers: Professor Cousins (Religion) and Professor Davis (Art History) will be invited to participate. Professors Lorch and Wemple, with participation of Professors Davis and Cousins. Tu 4:10-6. An additional hour of readings for students using this course to fulfill requirements in Italian will be arranged.

[History-Italian V3199x. Petrarch's World. Professor Lorch. Not given in 1979-80.]

11. Main Currents of the Modern European World: Renaissance to the French Revolution.

The forces—cultural, social, political, economic—which established modern Europe and brought it into contact with the rest of the world. Professor Levy and guest lecturers. M W F 11.

12. Main Currents of the Modern European World: The French Revolution to Today.

The French Revolution, nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism; and twentieth-century wars, revolutions, dictatorships, and aspirations. Professors Levy and Santore. M W F 11.

W1150x-W1151y. Introduction to the History of Europe: from the Renaissance to the Present Day.

Professor Rice. M W 5:40-6:30 plus hour to be arranged.

W3203x. The Old Regime and the Enlightenment: 1660-1789.

Professor Woloch. M W 11-12:15.

W3205x. European Politics and Society: 1870-1919

Professor Crew. Tu Th 4:10-5:25

W4210x. Economic History of Europe.

Professor Neuberger. M W 2:40-3:55

W3206y. Europe since 1919.

Professor Malefakis. Tu Th 9:10-10:25.

[13. The Italian Renaissance. Not given in 1979-80.]

[14. The Reformation in Europe in the Sixteenth Century. Not given in 1979-80.]

W4215x. Italy since 1815.

Professor Malefakis. Tu Th 9:10-10:25.

W4251x. Historiography and Theories of History.

Professor Smit. Th 4:10-6.

W3294y. Government, Law, and Society in England: 1558 to the Present.

Professor Bean. Tu Th 1:10-2:25.

[25. The Establishment and Downfall of the French Monarchy: 1515-1789. Professor Levy. Not given in 1979-80.]

[26. France in Turmoil: 1789 to Today. Professor Levy. Not given in 1979-80.]

[35. European Intellectual History: 1600-1789. Not given in 1979-80.]

W4157y. European Lefts since 1830.

Professor Paxton. M W 6:10-7:25.

W3250y. Foundations of Twentieth-Century Thought: European Intellectual History: 1890-1930.

Instructor to be announced. M W 1:10-2:25.

W4323y. History of East Central Europe: 1914-1945.

Professor Ránki. Tu 11-12:50.

W4513x. European Jewry in the Twentieth Century.

Professor Hyman. Tu Th 10:35-11:50.

W4517y. Jewish Intellectual History from Maimonides to Spinoza.

Professor Saperstein. Th 11-12:50.

W4427x-W4428y. History of the Hapsburg Monarchy: 1683-1918.

Professor Deak. M W 4:10-5:25.

History

W4212x. German History: 1862 to the Present.

Professor Stern. Th 2:10-4.

19. European Diplomacy: 1914-1939.

The origins and impact of the First World War; the "new diplomacy" and the peace settlements; the emergence of new political systems; attempts to attain stability in the twenties; the collapse of the thirties. Professor Santore. Tu Th 10:35-11:50.

20. The Second World War and the Recovery of Europe: 1939 to Today.

The Second World War and its legacy; the United Nations; rival groups and the Cold War; the new place of Europe in the world. Professor Santore. Tu Th 10:35-11:50.

W4310x. History of Russia: Tenth Century to Catherine the Great.

Professor Kaminski. M W 1:10-2:25.

W4311y. History of Russia: 1796-1917.

Professor Fitzpatrick. M W 1:10-2:25.

W4361x. History of Soviet Russia.

Professor Fitzpatrick. Tu Th 1:10-2:25.

W4350x. Women in Revolutionary and Soviet Russia.

Professor Fitzpatrick. M 11-12:50.

W3222x. English Politics and Society: 1500-1760.

Professor De Krey. M W 2:40-3:55.

W3213x-W3214y. History of Science.

Professor Dauben. Tu Th 6:10-7:25.

SEMINARS. ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY.

[1y. Introductory Seminar: History and Psychoanalysis. Not given in 1979-80.]

[2. Introductory Seminar: Law and Society in the Middle Ages. Not given in 1979-80.]

W3575x-W3576y. Israelite, Jewish, and Christian Historiography.

Historical writing and the notion of history in the Old Testament and apocrypha. Professor Smith. Tu 3:30-5:20.

[7y. The Revival and Survival of Rome. Professor Wemple. Not given in 1979-80.]

6x. The History of Women in the Middle Ages.

The origins of the legal and social position of women in the medieval society as reflected in patristic writings. Roman and Germanic codes. The contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine, and literature, studied through primary and secondary sources. Colloquium. Written permission of the instructor required. Professor Wemple. Th 2:10-4.

[10. The Transformation of the Roman World: from Constantine to Charlemagne. Professor Wemple. Not given in 1979-80.]

[15. The Civilization of Venice. Not given in 1979-80.]

[16. The Renaissance in Northern Europe and Spain. Not given in 1979-80.]

W3777y. Medieval Social History.

Readings in translation concerning social classes, social orders, and social and political theory and manners from the twelfth through the fifteenth century. Professor Mundy. W 4:10-6.

W3947x. The Role of London in English Politics and Society: 1600-1800.

The development of London as a political, economic, and social center from the accession of James I to the end of the eighteenth century. Professor Biddle. Tu 2:10-4.

18. Italy in the Twentieth Century.

An examination of the political, social, economic, and cultural development of Italy from 1900 to the present. Special emphasis will be given to the Fascist era and the problems of the Italian Republic after the Second World War. Professor Santore. Th 2:10-4.

[24. The History of Education in Western Europe through the Sixteenth Century. Not given in 1979-80.]

29. European Communism in the Era of the Comintern: 1919-1943.

A survey of the origins and development of the Communist parties of Western and Central Europe from the foundation of the Comintern to its dissolution in 1943. Special emphasis will be given to the Comintern sections in Germany, Italy, Spain, and France. Professor Santore. Th 2:10-4.

32. Women in Revolutionary Paris: 1789-1795.

Political attitudes and behavior of women in revolutionary Paris. Attention to the themes of feminist politics, welfare politics, and the politics of subsistence. Prerequisites: a reading knowledge of French, an introductory European history course, and permission of the instructor. A course in the French Revolution is desirable. Professor Levy. W 2:10-4.

W3953y. Cultural and Society in England in the Age of Milton and Locke.

Social and cultural change in the Stuart period with emphasis upon science, religion, political theory, and economic development. Professor De Krey. W 11-12:50.

37. The European Enlightenment.

The intellectual origins of the Enlightenment; Enlightenment ideas in their social and intellectual setting; the influence of the Enlightenment on the French Revolution. Professor Levy. W 2:10-4.

W3960x. Philosophy and the Social Order from Kant to Marx.

Discussion of selected writings of Kant, Fichte, Schiller, Hegel, Feuerbach, and Marx as intellectual responses to social and cultural dislocation in Germany and Western Europe between 1770 and 1848. Professor Traficonte. Tu 2:10-4.

W3970y. Selected Issues in the History of Marxism.

Sociological constraints implied by the socialization of Marx's ideas. The transformation of an individual's work into the foundation of a tradition; collective patterns of thought and party discipline; theory, party, and social movements; orthodoxy, revisionism, and neo-orthodoxy; Marxist assimilation of broader intellectual disputes. Professor Fernandes. M 6:10-8.

W3968x. The Holocaust.

This course will analyze the phenomenon of the mass destruction of European Jewry. Topics to be covered include the roots of Nazi anti-semitism, the development and implementation of Nazi anti-Jewish policy, Jewish responses, and international governmental and ecclesiastic reactions to Nazi persecution of the Jews. Professor Hyman. Tu 2:10-4.

[36. European Intellectual Developments. Professor Levy. Not given in 1979-80.]

W3837y. Revolutions of 1848.

The springtime of the peoples and the intellectuals: a comparative study of the struggle of Europe's conservative, nationalist, liberal, and socialist forces. Professor Deak. M 4:10-6.

W3966x. Social and Political Thought and Russian Society from Peter the Great to Lenin.

Readings and analysis of primary sources (in translation) to illustrate critically the evolution of Russian ideas about politics, authority, social organization, and the country's role in the world. Professor Raeff. Th 2:10-4.

W3967y. The Russian Revolutions: 1917-1929.

The revolution of 1917, culminating in the Bolsheviks' seizure of power; Stalin's "Revolution from above" of the first Five-Year Plan period. Professor Fitzpatrick. W 4:10-6.

W3972x. British Imperialism: 1870-1914.

A consideration of the impulses, ideologies, and rhetoric of late colonial expansion, Hobson and Lenin to Kipling and Chamberlain. Professor Roff. W 11-12:50.

W3974x. War in English Society: from Beowulf to the Armada.

Readings and discussions on the political and social effects of the warrior values of the upper classes and the territorial ambitions of English rulers from the Anglo-Saxon conquests to the defeat of the Armada. Professor Bean. Tu 4:10-6.

[44. Origins and Rise of Fascism. Not given in 1979-80.]**[47. Towards Munich and War: British Policy in the Thirties.** Not given in 1979-80.]**W3938y. The First World War and European Society.**

A comparative analysis of the impact of the First World War on European society. The war conceived of as a domestic, social, economic, and political crisis. Extent to which the war intensified, diverted, or transformed existing pre-war social, economic, political, and cultural patterns. Areas for investigation include: changing role of the state, market versus controlled economy, working class movements, changes in the family and the position of women, revolutionary situations in the postwar period, the emergence of fascism and communism, the cultural response to the war. Professor Crew. Th 4:10-6.

W3878x. Black Radicals and Radicalism in the Twentieth Century. Professor Lynch. W 11-12:50.**W3955y. The Family in History: 1500-1850.**

A survey of some of the principle contributions of the history of the family in Western Europe from the sixteenth to the mid-nineteenth century, with particular emphasis on England. Professor Biddle. W 2:10-4.

LECTURES. UNITED STATES HISTORY**W1109x. Main Currents in American History: 1492-1877.**

Professor Garraty. Tu Th 5:40-6:30, plus hour to be arranged.

W1110y. Main Currents in American History Since 1877.

Professor Graff. Tu Th 5:40-6:30, plus hour to be arranged.

51. Survey of American Civilization to the Civil War.

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861. Professor McCaughey and assistants. M W F 10.

52. Survey of American Civilization since the Civil War.

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War Two developments. Professor McCaughey and assistants M W F 10.

53. American Colonial History.

A study of continuity and change in the major institutions of American society from 1607 to 1783. Professor Williamson. Tu Th 10:35-11:50.

54. The American Revolution and Its Aftermath.

Why and how the American people made a revolution, waged a war and climaxed their victories with the Federal Constitution. Professor Williamson. Tu Th 10:35-11:50.

W4601x. American Beginnings: 1584-1763.

Professor Vaughan. Tu Th 2:40-3:55.

W4603y. The American Revolution.

Professor Onuf. Tu Th 4:10-5:25

W3121x-W3122y. The United States in the Nineteenth Century: 1815-1898.

Professor Shenton. M W 2:40-3:55.

W4792y. American Economic History: 1607-1861.

Professor Bruchey. M 4:10-6.

[84. American Intellectual History: 1865-1918. Professor McCaughey. Not given in 1979-80.]

60x. The United States and World Affairs: 1898 to the Present.

Examination of U.S. foreign policy since the Spanish-American War, focusing on major issues, personalities and processes as the country moved from isolation to involvement in World Affairs. Significance of ideology, bureaucracy, technology, and economic interest in formulation of policy. Role of Executive Branch, Congress, the military and civilian pressure groups. Means used to achieve foreign policy goals—diplomatic, economic, and military—and alternatives proposed by contemporaries. Professor Chambers. Tu Th 2:40-3:55.

69. War and Reform in Industrial America: 1898-1940.

Emergence of Urban, Industrial America and subsequent changes in attitudes, social order, and foreign policy. Examination of corporate giantism, mass immigration, urban ghettos, labor unions, and reform movements, and the impact of war and depression, as well as the political responses to these developments. Professor Chambers. Tu Th 10:35-11:50.

70. Expanding America: 1941 to the Present.

Economic, political, and military growth at home and abroad; emergence of the United States as an active World Power during World War II; the Cold War; and the Korean and Vietnam conflicts; the development of affluent society, multi-national associations, and the military-industrial complex; continuation of the New Deal and the challenges for the extension of political and economic equality and protection of the environment. Professor Chambers. Tu Th 10:35-11:50.

W3133x-W3134y. The United States in the Twentieth Century.

Professor Metzger. Tu Th 10:35-11:50.

W4515x. American Jewish History

Professor Hertzberg. F 11-12:50.

W4698x. Main Directions in the Foreign Relations of the United States in the 20th Century.

Professor Graff. Th 2:10-4.

SEMINARS. UNITED STATES HISTORY

[55. Jacksonian America. Not given in 1979-80.]

[59. Canada and the United States. Not given in 1979-80.]

[80x. Anglo-American Perceptions. Not given in 1979-80.]

81y. History of Women from Colonial Times to 1890.

An examination of important historical and literary sources for the study of American women from colonial times to 1890. Permission of the instructor required. Professor Baxter. Tu 2:10-4.

[82. History of Women in America since 1890. Not given in 1979-80.]

W3963y. Comparative Revolutions.

Anglo-American revolutionary tradition, the French Revolution, socialist and communist revolutions, and colonial liberation movements. Professor Onuf. Th 2:10-4.

History

V3933x. The Deviant in Modern Society.

An examination of a variety of sources, official, literary, film, etc., that treat the criminal and the insane in the twentieth century. Emphasis will be on public policy toward the dangerous classes as well as their composition and experience. Professor Rothman. Tu 4:10-6.

W3901y. Recent American Social Thought.

The works and ideas of outstanding contributors to American social thought in the 20th century. Professor Metzger. Th 2:10-4.

W3949y. Imperialism and Democracy: America and the Philippines: 1898-1946.

Examination of the reasons for annexation, of the nature and policies of colonial rule, and of their effects upon Filipino society, with special emphasis on the transference of specifically American institutions and values. Professor Roff. M 2:10-4.

W3923x-W3924y. The Civil War and Reconstruction: 1840-1877.

Readings and research in the social, economic, political, and military affairs of the United States before, during, and after the Civil War. Professor Shenton. W 4:10-6.

W3944y. American Legal History since the Civil War.

The development of American law and legal institutions since the Civil War with attention to such topics as civil rights, the First Amendment, the regulation of business, labor law, and criminal law. Readings in cases as well as in secondary sources. Professor Rosenberg. M 2:10-4.

[61. American Historiography. Professor Williamson. Not given in 1979-80.]

[83. American Intellectual History. From the Revolution to the Civil War. Professor McCaughey. Not given in 1979-80.]

[65. History of Education in the United States. Not given in 1979-80.]

71y. The Higher Learning in America.

The English college model and the American colonial context; the antebellum college and the egalitarian imperative. The emergent university as refuge and catalyst; the embattled multiversity and the contemporary predicament. Professor McCaughey. M 2:10-4.

[78. American Wartime Dissent; 1775-1972. Professor Chambers. Not given in 1979-80.]

85. The Professions in America: An Introduction to their History.

The development of the ministerial, legal, medical, and academic professions from the colonial period to the present, with emphasis on the periods of each profession's institutionalization. Selected other professions, e.g., the military, letters, will also be considered. Comparisons with the emergence of these professions elsewhere will be made, as will comparisons of the role women have played in these professions. Permission of the instructor required. Professor McCaughey. W 2:10-4.

W3943x. Early American Legal and Constitutional History.

Early American legal and constitutional development will be considered in historical context. Concern with the origins of political and legal systems will be subordinated to analyses of their social and economic impact. Professor Onuf. Tu 2:10-4.

W3903x, W3904y. The Presidency.

Readings and research aimed at the development of skill in historical writing. The theme for the year is chosen in consultation with the members of the class. Professor Graff. Tu 9-10:50.

86. Progressivism in Peace and War: 1901-1920.

Emergence and decline of reform in the United States. Analysis of the origins, aims, and accomplishments of the progressives and of their contemporaries: conservatives, trade unionists, and socialists. An examination of the impact of World War I upon American society. Professor Chambers. Tu 2:10-4.

87. The Public Calling in America: 1607-1975.

An historical inquiry into American politics as a vocation, from the Jamestown settlement to Watergate. In addition to examining changes in the occupational aspects of elective and appointive office-holding, changes in the perception of public service will be considered. Limited to 18 students. Professor McCaughey. M 2:10-4.

[75. **Franklin D. Roosevelt and the New Deal.** Not given in 1979-80.]

[76. **Franklin D. Roosevelt and Foreign Affairs.** Not given in 1979-80.]

LECTURES. LATIN AMERICAN AND NON-WESTERN HISTORY

Afro-American Civilization W3001x-W3002y. Introduction to the History and Culture of the Black Man in Africa and the Americas.

W3001x. Professor Irwin. W3002y. Professor Lynch. Tu Th 10:35-11:50.

W4422x-W4423y. The History of Islamic Society: from Muhammad to the Twentieth Century.

Professor Bulliet. Tu Th 4:10-5:25.

W4472y. The History of North Africa and the Sahara to 1500.

Professor Bulliet. M W 2:40-3:55.

W4905x. History of Modern South Africa.

Professor Wright. F 9-10:50, plus hour to be arranged.

W4928y. History of Modern West Africa.

Professor Irwin. M W 6:10-7:25.

W4779x-W4780y. History of Latin American Civilization.

W4779x. Professor Klein. Th 2:10-4. W4780y. Professor Larson. Th 2:10-4.

SEMINAR. LATIN AMERICAN AND NON-WESTERN HISTORY

W3948x. A History of the Caribbean in the Twentieth Century.

A critical examination of the main political, economic, and social currents in the English-, French-, and Spanish-speaking islands to the present. Professor Lynch. Tu 4:10-6.

W3973x. Religion and Imperialism in Latin America since World War I.

The course focuses on North American protestant agencies ("main line" and "evangelical") and their work in frontier societies (settlers and Indians); looks for connections between economic, political, and ethnic tensions as they are expressed within the missionary enterprise at the international, national, and local levels; discusses conflicting missionary strategies in the Amazon region. Professor Fernandes. M 6:10-8.

SEMINARS. SENIOR RESEARCH

91-92. Senior Research Seminar in European History.

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The result of each project will be presented in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Levy. W 4:10-6.

93-94. Senior Research Seminar in American History.

Individual research in diverse aspects of American history and presentation of results in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Williamson. Tu 2:10-4.

99x, 99y. Independent Study.

Members of the Department.

History

C3951x-C3952y. Supervised Research in History.

Permission of Departmental Representative required.

Full descriptions of the following courses of interest to students in history can be found under the heading of the interdisciplinary program in which the course is offered:

Medieval and Renaissance Studies 80. Myth and History: The Courts of the Capetians and the Hohenstaufens, 1150-1250: Advanced Seminar.

American Studies 1, 2. Seminar on American Culture and National Character.

Urban Studies 45. Junior Colloquium on Urban Studies.



Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

Professor of French

Serge Gavronsky,¹ Co-Chairperson

Professor of English

Remington Patterson

Professor of Italian

Maristella Lorch

Professor of Oriental Studies

Barbara Stoler Miller, Co-Chairperson

Professor of Philosophy

Mary Mothersill

Professor of Religion

Elaine Pagels

Professor of Russian

Richard Gustafson

¹Absent on leave, 1979-80.

The offerings listed here do not constitute a major. They are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C1001, C1002, are components of the Barnard General Requirement (see page 30, II. 1, 2, 3).

Except where prerequisites are indicated, all courses are open to freshmen.

READINGS IN THE HUMANITIES

[**Humanities 4x. Autobiography and Confession.** Professor Shroder. Not given in 1979-80.]

Humanities 15. Processes of Discovery.

Asking questions: Plato, *Meno*; Descartes, *Discourse on Method*; Sartre, *Search for a Method*. Solving riddles: Pirandello, *Six Characters in Search of an Author*; Shakespeare, *Hamlet*; Sophocles, *Oedipus the King*. Learning by doing: Apuleius, *The Golden Ass*; Read, *The Green Child*; Flaubert, *Bouvard and Pécuchet*. Professor Shroder. Tu Th 1:10-2:25.

Humanities V3003x-V3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.

The disintegration of traditional canons in ethics and aesthetics and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Works by Hegel, Dickens, Marx, Baudelaire, Kierkegaard, Flaubert, Melville, Tolstoy, Dostoevsky, and Nietzsche read in the first semester, and in the second, by James, Mann, Proust, Joyce, Yeats, Eliot, Woolf, Faulkner, Kafka, Sartre, Robbe-Grillet and Garcia Marques. Prerequisite: a grade of B or better in Humanities C1001-C1002 or permission of the instructor. Professor Kurrik (V3003x) and Professor Selig (V3004y) M W F 1:10.

TRANSLATION STUDIES

"Translation: Access to Cultural Communication" is a pilot project supported by the National Endowment for the Humanities. This project is designed to explore the multiple processes of translation. The Translation Seminar and a body of courses will focus on the complex ways in which humanistic activity involves the translation of ideas, emotions, and forms across barriers of time, space, and language.

Studies in the Humanities

Humanities 98. Seminar: Text and Meaning.

Readings, discussions, oral and written presentations by students and participating members of the faculty on linguistic, ideological, cultural, and practical aspects of translation. Enrollment is limited to upperclassmen by permission of Professors Kessler and Miller. Professors Kessler and Miller, with Professors Janes, Larson, Lorch, Malone, Prescott. W 4:10-6.

The following departmental courses, offered by members of the faculty participating in the Translation Seminar, represent disciplines in which the vocabulary of translation has been of theoretical concern. Students interested in taking the Translation Seminar are encouraged but not required to take one or more of these courses.

Anthropology V3044y. Symbolism.

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles will be examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner and others. Professor Kessler. Tu Th 2:40-3:55.

English 40. VII. Other Worlds.

Tradition and innovation in the literary treatment of Heaven, Hell, Purgatory, and the Earthly Paradise. Authors include Vergil, Dante, Milton, Wells, Lewis, and Golding. Professor Prescott. M W F 11.

French 14x. Advanced Translation.

Translations of various styles of prose and poetry from French to English. Nonmajors may take the course with permission of the instructor. Professor Terry. Tu Th 9:10-10:25.

[French 48. Translations, Transformations, and Distortions. Professor Gavronsky. Not given in 1979-80.]

Humanities 10. Drama and Ritual.

The development of religious dramatic forms, from primitive ritual to the contemporary theater. Special attention will be given to the early Church tropes and medieval play cycles and their influence upon modern religious drama. Selected readings from the Bible, medieval miracle and morality plays, Jonson, Bunyan, Calderon, Claudel, Yeats, Brecht, and Eliot. Professor Janes. W 2:40-4:30.

[Linguistics V3410y. The Science of Linguistics and Art of Translation. Professor Malone. Not given in 1979-80.]

Linguistics V3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Particular attention will be paid to recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials will include monolingual and bilingual texts (poems, proverbs, etc.) in several languages, some chosen by the instructor and others by the students. Prerequisite: Linguistics V1101. Enrollment is limited to 25 students; advance sign-up required. Professor Malone. Tu Th 9:10-10:25.

Oriental Humanities V3200x. Oriental Encounters.

Oriental classics of India, China, and Japan viewed through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Kerouac, Ginsberg, and Snyder. The *Bhagavadgita*, the *Dhammapada*, Zen dialogues and other texts relevant to the work of these writers. Professor Miller. Tu 2:10-4, plus conference hours.

Philosophy 63. Attitude, Action, and Reason.

The role of the ideal of rationality in understanding human attitudes and actions. Topics include: intentional action, reasons and causes, speech and thought, the indeterminacy of translation, the autonomy of meaning and choice. Readings from classical and contemporary sources including Aristotle, Descartes, Spinoza, Hume, Wittgenstein, Anscombe, Davidson. Prerequisite: One philosophy course or permission of the instructor. Professor Larson. M W 2:40-3:55.

Professor

Maristella de Panizza Lorch (Chairman; 206 Milbank Hall)

Instructor

Todd Boli

Other officers of the University offering courses listed below:

Professors

John C. Nelson, Olga Ragusa, Luciano Rebay

Assistant Professor

Pelligrino D'Acierno¹

¹Absent on leave, 1979-80

The courses in the Italian Department are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy.

A major in Italian should plan her program of study with the Chairman of the Department as early as possible. The following courses are required unless advanced standing is attained by departmental achievement test or by the Advanced Placement Examination: V1101-V1102 and V1201-V1202; or V1301-V1302 (with the permission of the instructor); V3335-V3336; at least eight courses in Italian numbered above V1302 (excluding V3335-V3336); to include V3333-V3334 and the seminar sequence V3993-V3994. When the student declares her major she will be given a minimum list of intensive readings in Italian, which she is expected to master by the end of the first semester of the senior year and for which she will be responsible to her senior seminar (V3993-V3994) instructor. A student from Italy with an Italian secondary education should substitute two courses of writing in English for V3335-V3336. Work in another foreign language is recommended.

Foreign Language Requirement for the Degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing V1301-V1302 plus V3333-V3334 or another full-year literature course given in Italian; or by completing V1201-V1202 plus V3334 or another one-semester literature course given in Italian with a minimum grade of B + .

LANGUAGE COURSES

V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is optional. Students must sign up for this course in room 610 Casa Italiana during the registration period. Section Ia. Professor Nelson. Section Ib. Mr. Storey. M Tu W Th 9. Section IIa. Mr. Becker. Section IIb. Mr. Storey. M Tu W Th 12.

V1201x-V1202y. Intermediate Course.

A review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. Prerequisite: Course V1101x-V1102y or the equivalent. Section I. Mr. Boli. M Tu W Th 9. Section IIa. Mr. Buonocore. Section IIb. Instructor to be announced. M Tu W Th 12.

V1301x-V1302y. Comprehensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. Permission of the Chairman required. Section I. Mr. Boli. M W F 11-12:15. Section II. Mrs. Hart. M W F 4:10-5:25.

Italian

V3335x-V3336y. Italian Written and Oral Style.

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. Prerequisite: V1201-V1202 or the equivalent. Mr. Boli. Tu Th 4:10-5:25.

LITERATURE COURSES IN ITALIAN

For nonmajors, the literature courses listed below will count toward the general college requirement. All courses are conducted in Italian.

V3333x-V3334y. Introduction to Italian Literature (in Italian).

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present. The basic course in Italian literature. Prerequisite: Course V1201-V1202 or the equivalent. Professors Lorch and Rebay. M W 2:40-3:55.

[V3449x-V3450y. Modern Italian Literature. Professor Rebay. Not given in 1979-80.]

[W3451x. The Sonnet: A Study of Poetic Structure. Professor D'Acerno. Not given in 1979-80.]

[V3467. Petrarch and Petrarchism. Professor Lorch. Not given in 1979-80.]

V3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo. Professor Rebay. Not given in 1979-80.]

[V3641y. The Italian Theater and Its Contribution to European Theater. Professor Lorch. Not given in 1979-80.]

V3891x. Dante, *La Divina Commedia*.

A study of *The Divine Comedy* focusing on textual analysis and the appreciation of Dante's masterwork as a poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English. Prerequisite: two years of Italian or the equivalent. Professor Rebay. M W 4:10-5:25.

V3993x-V3994y. Seminar in Italian Literature.

Guidance in research and writing of a critical essay. Required of majors. Open to other qualified students with permission of the Chairman. Professors Lorch, Nelson, Ragusa, and Rebay. Hours to be arranged.

COURSES GIVEN IN ENGLISH

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

[Italian-Music W3115x. Musical Settings of Italian Renaissance Poetry. Not given in 1979-80.]

[V3196y. Petrarch and Boccaccio. Not given in 1979-80.]

History-Italian V3197x. Dante's World.

The historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering. Major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*. Development of visual arts and ideas especially in the painting of Giotto. Professors Lorch and Wemple, with participation of Professors Davis and Cousins. Tu 4:10-6. An additional hour of readings for students using this course to fulfill requirements in Italian will be arranged.

V3221y. Machiavelli, Castiglione, Ariosto, Tasso.

An analysis of Machiavelli's *Prince* and *Mandragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections); and Tasso's *Aminta* and *Gerusalemme Liberata* (selections). Professor Nelson. Tu 2:10-4. Third hour: Th 2:10-3 (students with a knowledge of Italian); Th 3:10-4 (students with no knowledge of Italian).

[V3223x. Florentine Writers from Dante to Michelangelo. Not given in 1979-80.]

[V3453x-V3454y. Modern Italian Thought: Vico, Croce, Gramsci. Not given in 1979-80.]

V3469y. Renaissance Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition. Prerequisite: one course in either Renaissance History, Philosophy, Religion, Literature or Art. Reading knowledge of Latin recommended but not required. Permission of the instructor required. Professors Lorch and Grassi. Tu 9-10:50 and third hour to be arranged.

[V3465x-V3466y. Italian Civilization and Culture. Professor D'Acierno. Not given in 1979-80.]

V3642y. Studies in Contemporary Italian Arts: Italian Film.

An historical, social, and stylistic analysis of film within the context of neo-realism—its antecedents and influence on contemporary cinema. Course will trace the development of the Italian film industry vis-a-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works will be screened. Fee of \$15. Dr. Vella. Hours to be arranged.

English-Italian C3358y. Artistic Theory in the Renaissance.

An examination of a selected number of texts (in translation) on artistic theory—Alberti, Vassari, Leonardo, among others—and consideration of their importance to the history of art and literary criticism, with special attention to the critical terminology used. Professor Selig. M W 11-12:15.

[W4001x. Interrelations of Italian Literature and Culture. Professor Ragusa. Not given in 1979-80.]

[W4002y. Interrelations of Italian Literature and Culture II. Professor Ragusa. Not given in 1979-80.]

ITALIAN AND ITALIAN-AMERICAN STUDIES

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. It includes as an intrinsic dimension a study of the Italian-American experience of yesterday and today and its relation to the present Italian reality.

For details on the program, see pages 88-89 under Foreign Area Studies.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Professor

Joseph L. Malone (Chairman; 412A Milbank Hall)

Assistant Professor

Richard Wojcik

Other officers of the University offering courses listed below:

Professor

William Diver

Assistant Professors

Alan S. Castleman, Samuel R. Ramsey, David M. Yerkes

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistics research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

Required courses for the major in linguistics are (I) Linguistics V1101, V3203, V3206, V3901, and one other 3000-level linguistics course, and (II) three courses in linguistics and/or post-intermediate language to be chosen in consultation with the adviser. In addition to these requirements each student must plan with the adviser a program of breadth and specialization studies.

V1101x or y. Introduction to Linguistics.

The nature of language. Characteristics of phonological and grammatical systems and the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Limited enrollment, advance sign-up required. V1101x. Section I. Professor Malone. Tu Th 9:10-10:25. Section II. Professor Castleman. Tu Th 6:10-7:25. V1101y. Section I. Professor Wojcik. M W 11-12:15. Section II. Professor Castleman. Tu Th 6:10-7:25.

V3203x. Synchronic Linguistics.

Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics V1101. Limited enrollment, with priority to linguistics majors. Advance sign-up required. Professor Malone. Tu Th 10:35-11:50.

V3206x. Historical Linguistics.

The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics V1101. Limited enrollment, with priority to linguistics majors. Professor Yerkes. Tu Th 2:40-3:55.

[V3301x. The Structure of a Language. Not given in 1979-80.]**[V3303x. Linguistic Analysis. Not given in 1979-80.]****[V3406y. Semantics and Figurative Language. Not given in 1979-80.]****[V3408x. Language Acquisition. Not given in 1979-80.]****V3412y. Linguistics and the Translation of Poetic Language.**

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Particular attention will be paid to recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials will include monolingual and bilingual texts (poems, proverbs, etc.) in several languages, some chosen by the instructor and others by the students. Prerequisite: Linguistics V1101. Enrollment is limited to 25 students; advance sign-up required. Professor Malone. Tu Th 9:10-10:25.

V3413x. Language Typology and Universals.

Survey of the ways in which linguists classify languages. The investigation of language universals through cross-linguistic studies. The influences of such studies on linguistic theory. Prerequisite: Linguistics V1101 or permission of the instructor. Professor Wojcik. M W 2:10-3:25.

[V3410y. The Science of Linguistics and the Art of Translation. Not given in 1979-80.]

[German Linguistics V3703. Introduction to German Dialectology. Not given in 1979-80.]

V3810y. The Grammar of the Classical Languages.

Comparison of two approaches to the grammar of the classical languages. (Knowledge of Greek and Latin is not required.) (1) The traditional "grammar of structure," which results in a view of language as largely rule-governed. (2) A "grammar of communication," which views the morphology as constantly contributing to the communication. The role of grammar in literary interpretation. Adequacy of the traditional grammar as an empirical basis for the philosophy of language and for other modern investigations that are interdisciplinary with linguistics. Professor Diver. Tu Th 2:40-3:55.

V3901y. Seminar in Linguistics.

Supervised research in the student's area of specialization; preparation of a research paper. Prerequisite: the linguistics major, and senior standing. Professor Malone. W 9-10:50.

W4204y. Introduction to Phonology.

Basic concepts and issues in phonological theory. Critical examination of the development of the phonemic and morphophonemic levels of representation. Prerequisite: Linguistics W4201 or permission of the instructor. Professor Wojcik. Th 10:35-12:25.

W4500x. Generative Syntax.

Principles and analytic techniques of generative syntax; formal and substantive aspects of transformations, base, lexicon, and semantic interpretation; generative syntax and generative semantics. Permission of the instructor required. Professor Wojcik. Tu Th 1:10-2:25.

W4502y. Generative Phonology.

Principles and analytic techniques of generative phonology; mutual relations of underlying representation and phonetic interpretations; formal and substantive aspects of phonological rules and of phonotactic conditions. Prerequisite: Linguistics W4204 or the instructor's permission. Professor Malone. Tu 10:35-12:25.

W4602y. Generative Issues in Semantics.

Examination of current theoretical issues in semantics. In particular, the structure of the lexicon, pre-supposition, performatives, and "natural" logic. Professor Wojcik. Tu 1:10-3.

OTHER LINGUISTIC COURSES

For full descriptions, please consult the Columbia College Bulletin.

W4004x. Linguistics and the Verbal Arts. Professor Austerlitz. M W 11-12.

W4104x. Theories of Grammar. Professor Diver. Th 9-11.

W4107x. Linguistic Geography. Professor Herzog. Tu 10-12.

W4201x. Phonetics. Professor Austerlitz. M W 10-11.

W4801y. Language as Communication: Synchrony. Professor Diver. W 2-4.

W4802x. Language as Communication: Diachrony. Professor Diver. W 2-4.

Anthropology V3020y. Men's and Women's Speech. Professor Woodbury. M W 1:10-2:25.

Anthropology V3034y. Ethnolinguistics. Professor Woodbury. M W 1:10-2:25.

Linguistics-East Asian V3501y. Dialectological Problems in Modern Japanese. Professor Ramsey.
Time to be announced.

URALIC LANGUAGES (Finnish and Hungarian)

Please consult the bulletins of the Graduate School of Arts and Sciences and the School of General Studies.

JUDEZMO LANGUAGE AND LITERATURE, AND YIDDISH LINGUISTICS AND LITERATURE

Please consult the bulletins of Columbia College, the School of General Studies, and the Graduate School of Arts and Sciences.

Mathematics

Professor

Joan S. Birman (Chairman; 514 Mathematics)

Assistant Professor

Daniel Grayson

Other officers of the University offering courses listed below:

Professors

Hyman Bass, Lipman Bers, Patrick X. Gallagher, Herve M. Jacquet, Ellis Kolchin, Masatake Kuranishi, Boris Moishezon, John W. Morgan

Associate Professors

Avner Ash, Henry Pinkham

Assistant Professors

Michael Davis, Lee Rudolph, Karen Vogtmann

Joseph Fels Ritt Assistant Professors

Doris Fischer-Colbrie, Yuval Flicker, Michael Fourman,¹ Philip Green, John Harer, Duong H. Phong, Diana Frost Shelstad, Nancy Stanton, Jacob Strum.

Visiting Assistant Professor

Alan Durfee

¹Absent on leave, 1979-80.

The systematic study of mathematics begins with one of the following two-term sequences: V1101 and V1102 (referred to below as Calculus IA and IIA), V1103 and V1104 (Calculus IB and IIB), V1107 and V1108 (Calculus IC, IIC), V1201 and V1202 (Calculus IIIA and IVA), or Section II of V1203-V1204 (Calculus IIIB, IVB).

The A-sequence calculus is a standard course devoted to the differential and integral calculus. It is intended for students who need calculus primarily for its applications. The B- and C-sequence calculus courses cover the same basic material as the A-sequence. The B-sequence tends to be more difficult than the A, and the C-sequence more difficult than the B. The B-sequence stresses more heavily the theoretical foundations, while the C-sequence stresses theory and in addition demands creative imagination and an unusual ability to think abstractly. All students who wish to take Calculus IC, IIC must take a qualifying examination administered by the Department of Mathematics during Freshman Week. Students not seeking to enter Calculus IC who have recently taken the Level I or Level II Mathematics Achievement Tests of the College Board, are placed on the basis of their Achievement Test scores. Students intending to take Calculus IA should consult the bulletin board outside 609 Mathematics within a period of three days before the beginning of classes for information on classroom assignments.

Students who are not adequately prepared for any calculus course must take one of the non-credit offerings (see below) to make up their deficiencies in background.

Students who have studied calculus in high school and have passed the Advanced Placement Test in Calculus AB with a grade of 4 or 5 are awarded one course credit and may begin with Calculus IIA or Calculus IIB, or with Calculus IC if they have passed the qualifying examination for that course. Those who have received a grade of 3 will be awarded one course credit only if they take and pass Calculus IIA or IIB.

Students who have studied calculus in high school and have passed the Advanced Placement Test in Calculus BC with a grade of 4 or 5 are awarded two courses credit and may begin with Calculus IIIA or Calculus IIIB (Section 2, for freshmen only), or with Calculus IC if they have passed the qualifying examination for that course. Those who have received a grade of 3 will be awarded two courses credit only if they take and pass Calculus IIIA or IIIB, and will be awarded one course credit if, instead, they take and pass Calculus IIA or IIB.

In most of the courses, the lectures are supplemented by recitation periods which meet once a week in small groups. Assignments to recitation sections are made **after** the first lecture.

Students who wish to transfer from one division of Calculus to another are allowed, with the approval of the departmental representative, to do so beyond the date specified in the Academic Calendar. They are considered to be adjusting their level, not changing their program.

Students who major in mathematics are required to complete ten courses. These must include: Calculus I-IV (the B- or C-sequences are strongly advised), V3040-V3041, W4062. Students who are contemplating graduate studies in mathematics are also urged to take at least one semester of V3951-V3952, and to acquire a reading knowledge of two of the three languages: French, German, and Russian. All majors are encouraged to take courses in allied fields, such as physics, chemistry, mathematical statistics, and computer science. None of these may be counted toward the ten courses required for a major in mathematics.

Senior mathematics majors are required to participate in one of the undergraduate seminars V3951x or V3952y.

Students who major in applied mathematics are required to complete the following courses: Calculus IB-IVB; Mathematics V3029-V3030 (or V3027 and V3202); Mathematics V3028 (or Engineering Mathematics E4200); Mathematics V3007; Mathematics W4061; Mathematical Statistics G4105 (Probability); Computing Science G4401 (Numerical Analysis); and an Applied Mathematics Seminar (new course, to be arranged).

Students who wish to minor in mathematics are required to complete 7 courses, including the four courses in the calculus sequence. Courses in mathematical statistics or computing science may not be used toward the mathematics minor.

Students who are interested in planning a major in mathematical statistics or computing science may petition the Committee on Programs and Academic Standing for such a major, after obtaining the approval of the Chairman of the Mathematics Department. Sample offerings in Computing Science and Mathematical Statistics are listed below. For a complete listing, consult the Columbia College Bulletin.

V1001x-V1002y. Introduction to Basic Concepts of Mathematics.

A terminal course for students not intending to continue the study of mathematics. A glimpse into the world of mathematics and its applications. Although the material is elementary, it is approached from a thoroughly contemporary scientific point of view. Prerequisite: high school mathematics through intermediate algebra. V1001 is prerequisite for V1002. Professor Davis. Tu Th 4:10-5:25.

V1101x and y. Calculus 1A.

Functions, limits, derivatives. Examples. Applications. Integrals. Section I. (x) Professors Harer and Sturm. (y) Professor Phong. M W F 10. Section II. (x) Professors Ash, Flicker, Grayson, Jorgensen, and Vogtmann. (y) Professor Sturm. M W F 11. Section III. (x) Professors Green and Shelstad. M W 1:10-2:25. (y) Professor Fischer-Colbrie. M W 4:10-5:25. Section IV. (y) Professor Pinkham. Tu Th 6:10-7:25. Students are assigned to lectures within the same section according to their mathematical background. Recitation: One hour chosen by the student during the first week of classes. Recitations are scheduled approximately 12 times a week in V1101x and 8 times a week in V1101y. The Help Room on the 6th floor of the Mathematics Building is open to students seeking individual help and counseling by the instructors and teaching assistants during the day, Monday to Friday. Video tape equipment is also available for problem solving.

V1102x and y. Calculus IIA.

Methods of integration. Applications of the integral. The elementary transcendental functions. Taylor's theorem. Infinite series. Power series. Prerequisite: Mathematics V1101 or the equivalent. Section I. (x) Professor Stanton. (y) Professors Harer and Sturm. M W F 10. Section II. (x) Professor Harer. (y) Professors Ash, Flicker, Grayson, Jorgensen, and Vogtmann. M W F 11. Section III. (x) Professor Rudolph. Tu Th 6:10-7:25. (y) Professors Green and Shelstad. M W 1:10-2:25. Recitations: One hour chosen by the student during the first week of classes.

Mathematics

V1103x. Calculus IB.

The same topics as Calculus 1A, but intended to develop a theoretical understanding of the mathematical concepts. Professors Phong and Szpiro. M W F 11. Recitation sections: Tu or Th, 8 or 12.

V1104x and y. Calculus IIB.

Prerequisite: Mathematics V1103 or the equivalent. (x) Professor Bers. (y) Professors Phong and Szpiro. M W F 11. Recitation sections: Tu or Th, 8 or 12.

V1107x, V1108y. Calculus IC and IIC.

The same material as course IA, IIA. The terminology and style are thoroughly modern. Intended for students who have facility with discussion on an abstract level, or who appear likely to develop such facility early. Professor Birman. M W F 11.

V1201x and y. Calculus IIIA.

Vectors in 2 and 3 dimensions; determinants of order 2 and 3. Vector valued functions and their derivatives; curves; velocity and acceleration. Functions of several variables, partial derivatives; gradient, differential; surfaces, tangent planes, extrema. Double and triple integrals; applications. Vector fields; line integrals. Prerequisite: Mathematics V1102 or the equivalent. Section I. (x) Professors Bass and Jacquet. Tu Th 10:35-11:50. Section II. (x) Professors Davis and Kuranishi. Tu Th 1:10-2:25. (y) Professor Rudolph. Tu Th 6:10-7:25. Recitations: Section I. (x) M or W, 8 or 12. Section II. (x) Tu 2:40-3:55 or Th 4:10-5:25. (y) Tu 7:40-8:55 p.m. or Th 4:10-5:25.

V1202x or y. Calculus IVA.

Vectors in higher dimension; matrices; determinants. Transformations, Jacobians; implicit functions; Lagrange multipliers; change of variables. Taylor formulae in several variables; curves; extrema. Vector fields; divergence and curl; surface integrals. Complex numbers. Fourier series. Prerequisite: Mathematics V1201. Section I. (x) Professor Eilenberg. Tu Th 6:10-7:25. (y) Professor Jacquet. Tu Th 10:35-11:50. Section II. (y) Professors Davis and Kuranishi. Tu Th 1:10-2:25. Recitations: (x) Tu 7:40-8:55 p.m. or Th 4:10-5:25. Section I. (y) M or W, 8 or 12. Section II. (y) Tu 2:40-3:55 or Th 4:10-5:25.

V1203x or y. Calculus IIIB.

The same topics as Mathematics V1201, with greater emphasis on the underlying theory. Prerequisite: for Section I (x) or for (y): Mathematics V1104. For Section II (x): Grade of 4 or 5 on Advanced Placement Test in Calculus BC. Section I (x) Professor Pinkham. Tu Th 10:35-11:50. Section II (x) (freshman only). Professor Gallagher. M W F 11. (y) Professor Bers. M W F 11. Recitations: Section I (x) M or W, 8 or 12. Section II (x) (freshmen only). Tu or Th, 8 or 12. (y): Tu or Th, 8 or 12.

V1204x or y. Calculus IVB.

The same topics as Mathematics V1202, with greater emphasis on the underlying theory. Prerequisite: Mathematics V1203. (x). Professor Stanton. M W F 11. Section I (y) Professor Pinkham. Tu Th 10:35-11:50. Section II (y) (freshmen only). Professor Gallagher. M W F 11. Recitations: (x). Tu or Th, 8 or 12. Section I (y) M or W, 8 or 12. Section II (y) (freshmen only). Tu or Th, 8 or 12.

V1207x, V1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA, plus additional topics, as time permits. The terminology and style are thoroughly modern. Prerequisites: Calculus IIC or IIIC. Calculus IIIC for IVC. Professor Morgan. Tu Th 10:35-11:50.

V1220y. Algebra for Applications.

Topics in abstract algebra now extensively used in science and engineering. Basic notions of set theory. Induction. Groups, rings, fields. The rings of integers and of polynomials. Finite abelian groups, finite rings and fields. Boolean algebra. Elementary combinatorics. Difference equations. Notions from graph theory. Prerequisite: One year of Calculus. Professor Bass. Tu Th 10:35-11:50.

V2040x. Number Theory.

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes.

Irrational, algebraic, and transcendental numbers. Prerequisite: Calculus II. Professor Pinkham. Tu Th 1:10-2:25.

V3005x, V3006y. Advanced Calculus for Science Majors.

This course completes the basic calculus sequence and supplies the essential groundwork for applications to physics and engineering. Elements of linear algebra. Power series. Taylor expansions. Chain rule. Change of variables in multiple integrals. Line and surface integrals. Green's and Stokes' theorem. Implicit function theorem. Differentiation of series and integrals. Orthogonal expansions: Fourier series, Legendre polynomials, Bessel functions. Complex analysis. Cauchy-Riemann equations, Cauchy theorem. Residue theorem with applications to contour integrations. Either term may be taken separately. Prerequisite: Calculus IV. Professor Moishezon. Tu Th 2:40-3:55.

V3007y. Complex Variables.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. Prerequisite: Calculus IV. Professor Stanton. M W 1:10-2:25.

V3010x. Fundamental Concepts of Mathematics.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV and at least one 3000 course. Professor Fischer-Colbrie. M W F 10.

V3027x. Differential Equations.

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points. Boundary value problems. Qualitative theory of nonlinear equations. Selected applications. Prerequisite: Calculus IV or equivalent. Professor Moishezon. Tu Th 6:10-7:25.

V3028y. Partial Differential Equations.

Introduction to partial differential equations. First-order equations. Linear second-order equations; separation of variables, solution by series expansions. Boundary value problems. Further topics chosen by the instructor. Prerequisite: Course V3027x or equivalent. Professor Moishezon. Tu Th 6:10-7:25.

V3029x-V3030y. Linear Algebra and Differential Equations.

An integrated course in linear algebra and ordinary differential equations, the latter serving as the major source of motivation for and applications of the former. The content of V3027 and V3028, with applications to population biology, economics, physics, chemistry, electrical circuits, and manifold theory. Intended for students in the mathematical, physical, biological, and social sciences. Prerequisite: Course V1102 or the equivalent. Professor Ash. M W 1:10-2:25.

V3040x, V3041y. Introduction to Modern Algebra.

Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV. Mathematically mature students may, with permission of the instructor and the Chairman, take this course after completing Calculus IIB or IIIB. Professor Kolchin. Tu Th 1:10-2:25

W4061x, W4062y. Introduction to Modern Analysis.

The real numbers. Metric spaces. Elements of general topology. Continuous functions. Implicit function theory. Measure and integration. Change of variables in integration. Banach spaces and Hilbert spaces. Bounded operators. Examples and applications. Further topics chosen by the instructor. Prerequisite: Calculus IV or the equivalent. Professor Green. M W 4:10-5:25.

V3202x. Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms. Prerequisite: Calculus II or the equivalent. Primarily for majors in mathematical statistics, the physical sciences, biology, and the social sciences. Professor Vogtmann. M W F 10.

Mathematics

V3375x. Geometric Topology.

The fundamental group, Seifert-Van Kampen theorem, covering spaces, classification of 2-manifolds, simplicial homology. This course is intended primarily for mathematics majors. Prerequisite V3040 and W4061. Professor Birman. M W F 10.

V3386y. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Professor Birman. M W F 10.

V3901x-V3902y. Supervised Readings in Mathematics.

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his willingness to act as sponsor. Sponsorship is limited to full-time instructors listed on the staff list. Written reports and periodic conferences will be required. Permission of the Chairman and of the staff member who agrees to act as sponsor are required. The written permission **must** be deposited with Ms. Georgiadis, Rm. 602 Mathematics Bldg. before registration is completed. The staff. Hours to be arranged.

V3951x-V3952y. Undergraduate Seminars in Mathematics.

The subject matter is announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. Prerequisite: two years of calculus and at least one-year of additional mathematics courses, and the permission of the department chairman. Professor Bass. Consult 6th Floor Bulletin Board, Mathematics Bldg., for organizational meeting date, during registration period.

SAMPLE OFFERINGS IN COMPUTING SCIENCE AND MATHEMATICAL STATISTICS

Computing Science W1001x and W1001y. Introduction to Computing Science.

Basic programming skills and their use in such applications as teaching, literature, law and political science. Emphasis on learning to recognize the kinds of problems amenable to computer solution. Data simulation, learning machines, and compilers. Problems for solution on a computer teletype in the language BASIC. Primarily, but not exclusively, for students in the humanities and social sciences. Laboratory fee \$20. W1001x. Professor Gross. M W 1:10-2:25. W1001y. Instructor to be announced M W 6:10-7:25.

Computing Science W3202y. Computing and Finite Mathematics.

Introduction to mathematical programming methods for utilization in the natural and social sciences. Emphasis on equation solving and linear programming. Computer arithmetic. Economic models. FORTRAN. Prerequisite: Course W1001. Laboratory fee: \$20. Instructor to be announced. M W 1:10-2:25.

Statistics W1111x. Introduction to Statistics I. (formerly W3001x)

An introduction to the principles and methods of statistics, with applications to natural and social sciences. The nature of statistical inference, descriptive statistics; elements of probability theory; discrete and continuous data; the binomial and normal distributions; tests of hypotheses; power functions; estimation of unknown parameters. This course covers the basic concepts. Placement test required. Professor Cuzik. Lec. Tu Th 10:35-11:50. Disc. Sec. I. Tu 2:10-4. Sec. II. W 3:10-5. Sec. III. F 1:10-3.

Statistics W1112y. Introduction to Statistics II. (formerly W3002y)

Tests of hypotheses concerning means; analysis of variance; sample surveys; frequency distributions for several variables and measures of association; correlation; contingency tables and chi-square tests; regression and prediction; curve fitting; nonparametric procedures. Prerequisite: Course W1111 or permission of a member of the department. Professor Cuzik. Lec. Tu Th 10:35-11:50. Disc. Sec. 1. Tu 2:10-4. Sec. II. F 1:10-3.

Students who have had one year of calculus may prefer to register for:

Mathematical Statistics W3111x. Principles of Statistical Inference, I.

Professor Bradley. Lec. Tu 4:10-6. Disc. Sec. I. M 1:10-3. Sec. II. Th 1:10-3.

Mathematical Statistics W3112y. Principles of Statistical Inference, II.

Prerequisite: Course W3111 or permission of a member of the department. Professor Bradley. Lec. Tu 4:10-6. Disc. Sec. I. M 1:10-3. Sec. II. Th 1:10-3.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

NO CREDIT OFFERINGS

V0070 x and y. Mathematics for Elementary Science.

For students who do not have a firm grasp of high school mathematics and will need some elementary mathematical techniques in later courses or work. Those who plan to study calculus should consider V0077 (see below). Topics studied: polynomials, algebraic equations, coordinates, lines and circles, exponents and logarithms, trigonometry. This course does not carry credit toward the bachelor's degree. The Staff. Section I. M W 7:10-8. Section II. Tu Th 4:10-5.

V0077x and y. Pre-calculus.

For students who wish to study calculus but do not have a firm enough grasp of high school mathematics. Topics studied: Functions, composite functions, rates of growth, trigonometry, inverse functions, exponents and logarithms, rates of change. This course does not carry credit toward the bachelor's degree. The Staff. Section I. M W 1:10-2. Section II. M W 4:10-5. Section III. Tu Th 6:10-7. Section IV. M W 7:10-8.



Medieval and Renaissance Studies

This program is supervised by the Committee on Medieval and Renaissance Studies.

Professor of Italian

Maristella Lorch, Chairman

Professor of English

Ruth Kivette

Professor of French

Tatiana Green

Professor of German

Brigitte Bradley

Associate Professors of English

Lois Ebin

Anne Prescott

Associate Professor of History

Suzanne Wemple (Adviser)

Associate Professor of Spanish

Marcia Welles

Assistant Professor of Art History

Jane Rosenthal

Assistant Professor of Religion

Marilyn Harran

Consultants

Ewart Cousins, Visiting Professor of Theology

Howard Davis, Professor of Art History (Columbia)

Kenneth Janes, Professor of English

Howard Schless, Professor of English (Columbia)

Barry Ulanov, Professor of English

The purpose of this program is to enable undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilization and to gain an awareness of the interdependence of historical and cultural developments.

The programs will be set up individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five courses to be taken in the field of concentration has been developed by the relevant department.

The requirements for the major in Medieval and Renaissance Studies are twelve courses distributed as follows: (1) At least five courses in the area of concentration; (2) At least two history courses; (3) At least three Medieval and Renaissance Studies courses; (4) Two electives to be chosen in consultation with the adviser. Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.

Language requirement for Medieval Studies: A reading knowledge of one Romance or Germanic language. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin 33x.)

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeograph lists of concentration courses are available in Professor Wemple's office, 413 Lehman Hall.

80. Myth and History: The Courts of the Capetians and the Hohenstaufens, 1150-1250. Advanced Seminar.

An exploration of the origins and dimensions of French and German cultures in the High Middle Ages through historical reality and fiction. Professors Bradley, Terry, and Wemple. Tu 1:10-2:50, Th 1:10-2.

[81. **The Italian Renaissance Courts and the Theater.** Not given in 1979-80.]

[82. **Iconography and Allegory.** Not given in 1979-80.]

83. Medieval Drama: Dramatics and Liturgy. Introductory Seminar.

The change from Biblical narrative to poetic drama, major scenes and imagery, and lateral staging, a medieval method new to modern theater. Equal emphasis will be given to the literary study of medieval drama and to the production of sections of a major cycle (*Ludus Coventriae*). First half-semester: 2 hours text, 1 hour production; second half-semester: 1 hour text, 2 hours production. Limited to 25 students. Professors Janes and Schless. M W F 11-12.

84. Renaissance Humanism: Its Sources, Forms and Legacy. Advanced Seminar.

A systematic study of humanistic literature in Europe (1400-1500); forms of humanistic literature, the humanist concern with Christianity as religion, humanism and education, politics and the visual arts. Professors Lorch, Prescott, Grassi. M 4:10-6. An additional hour of readings for students using this course to fulfill requirements in Italian will be arranged.

90. Senior Seminar.

A close examination of texts central to the continuity and reappraisal of Medieval and Renaissance traditions. Readings will be linked to the student's experience in various fields and will provide a context for the preparation of a senior thesis. Members of the Committee. Hours to be arranged.

History-Italian V3197x. Dante's World. Introductory Seminar.

The historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering. Major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*. Development of visual arts and ideas especially in the painting of Giotto. Professors Lorch and Wemple, with participation of Professors Davis and Cousins. Tu 4:10-6. An additional hour of readings for students using this course to fulfill requirements in Italian will be arranged.

Italian-Latin G6086x. Latin Literature of the Renaissance.

Introduction to neo-Latin literature through the reading and analysis of Latin works by Italian humanists. Professor Lorch. W 10-11:50.

[Italian-Music W3115x. **Musical Settings of Italian Renaissance Poetry.** Not given in 1979-80.]

Latin 33y. Medieval Literature.

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Prerequisite: Three semesters of college Latin or permission of the instructor. Professor Lenaghan. M W F 11.

[Latin-Medieval and Renaissance Studies 10. The Vulgate.

Professor Lenaghan. Not given in 1979-80.]

Professors

Patricia Carpenter, Hubert Doris (Chairman; 409 Milbank Hall)

Assistant Professor

James M. Baker

Associate

Peter Schubert

Other officers of the University offering courses listed below:

Professors

Jack Beeson, Joel Newman, Leeman Perkins, Ernest H. Sanders, Howard Shanet

Assistant Professors

Nancy K. Baker, Charles M. Dodge, George Edwards, Ellen T. Harris, Max Lifchitz, Kay K. Shelemay, Richard Taruskin, Mark Zuckerman

Lecturers

Christopher Hatch, James Webster

Associate

Niels Østbye

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should start with Courses V2100x and V3123x as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same type of material in greater depth in the courses already required of them.

A major in music is required to take the following courses: V2100-V2101, V2300-V2301, V2303, V2305, V3123, V3124, V3125, V3126, V3179-V3180 and V3373-V3374. Applied music (a maximum of one course) may be counted toward the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, theory, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

Students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons until an appropriate level of proficiency at the keyboard has been reached, such proficiency to be certified by Mr. Østbye no later than the end of the first term of the senior year. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated.

A senior major is required to prepare a research paper or project to be planned in consultation with her adviser no later than the beginning of the senior year.

The Program in the Arts: Those students contemplating a career in performance or composition should see the announcement on the Program in the Arts, pages 56-57.

Practice rooms: The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

LITERATURE AND HISTORY

1-2. An Introduction to Music.

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course is not designed for students majoring in music. Professor J. Baker and Mr. Schubert. Section I. M W 1:10-2:25. Section II. Tu Th 10:35-11:50.

V1004y. Literature of the Pianoforte.

Selected works of piano music from the eighteenth century to the present. Prerequisite: Course 1-2 or the equivalent. Professor Doris. Tu Th 2:10-4. One hour is a listening hour.

[V1005y. The Opera. Not given in 1979-80.]

V1006y. The Symphony.

A survey of symphonic style and structure from 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Professor N. Baker. M W 1:10-3. One hour is a listening hour.

[V1007x. Music of the World's Peoples. Not given in 1979-80.]

V1008x. Twentieth Century Music.

A survey of contemporary music from the late 19th century to the present. Prerequisite: Course 1-2 or the equivalent. Professor Shelemay. M W 3:10-5. One hour is a listening hour.

V1015y. American Music.

A survey of music in America from colonial times through the 1950s. Attention to the relationship between folk, "entertainment," and art music. Prerequisite: Course 1-2 or the equivalent. Professor Newman. Tu Th 2:10-4.

V1023y. Haydn and Mozart.

Survey of the lives and works of Haydn and Mozart, including their historical and cultural context. Development of the Classical style of the late eighteenth century, with particular attention to Haydn's symphonies and string quartets and to Mozart's operas and piano concertos. Dr. Webster. Tu Th 2:10-4.

V1617x. Electronic Music: Its Evolution and Techniques.

A comprehensive survey of electronic music from 1948 to 1968, with detailed analysis of compositional techniques and their evolution and application by various groups and individual composers. Technical procedures employed in creating sound materials are discussed. Prerequisite: Music V2101 or the equivalent and written permission of the instructor. Professor Ussachevsky. Tu 2:10-4.

[V3021y. Schoenberg. Professor Carpenter. Not given in 1979-80.]

[V3042x. Aesthetic Disciplines in Music. Not given in 1979-80.]

V3123x. History I.

Western music to the early sixteenth century. Prerequisite or corequisite: Music V2100 or the equivalent. Section I. Professor Taruskin. M W 2:10-4. One hour is a listening hour. Section II. Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3124y. History II.

Western music from the early sixteenth to the end of the seventeenth century. Prerequisite: Music V3123 or permission of the instructor. Section I. Professor Taruskin. M W 2:10-4. One hour is a listening hour. Section II. Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century. Prerequisite: Music V3124 or permission of the instructor. Section I. Professor Harris. M W 2:10-4. One hour is a listening hour. Section II. Professor N. Baker. Tu Th 5:40-7:30. One hour is a listening hour.

V3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century. Prerequisite: Music V3125 or permission of the instructor. Section I. Professor Shelemay. M W 2:10-4. Section II. Professor Hatch. Tu Th 5:40-7:30. One hour is a listening hour.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies. Prerequisite: three years of the theory sequence, two years of the history sequence, and Music V3373-V3374, or written permission of the instructor. V3179x. Section I. Professor Shanet. W 3:10-5. Section II. Professor Doris. Th 3:10-5. V3180y. Section I. Professor Shanet. W 3:10-5. Section II. Professor Carpenter. Th 3:10-5.

THEORY

V1329x, y. Musicianship.

The basic elements of music are studied with the aim of developing musicianship. Prerequisite: placement examinations will be given at the first class meeting. Section Ia. Professor N. Baker. Ib. (Autumn Term) Professor Shelemay. (Spring Term) Instructor to be announced. Ic. Professor Harris. Tu Th 4:10-5:25.

All students taking the Music Theory sequence (V2100 through V2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the ear-training sequence V2000 through V2003. These courses do not carry credit toward the degree.

V2000x and y. Ear-training. Level I.

Intervals, rhythms, and melodic lines, for dictation and sight-singing. Section Ia. Mr. Schubert. Section Ib. Instructor to be announced. Tu Th 9.

V2001x and y. Ear-training. Level II.

Three- and four-tone chords and simple passages, for dictation and sight-singing. Section Ia. Mr. Schubert. Section Ib. Instructor to be announced. Tu Th 9.

V2002x and y. Ear-training. Level III.

Cadences and chord progressions, for dictation and sight-singing. Prerequisite: V2001 or equivalent achievement in the ear-training placement examination. Instructor to be announced. M W 9.

V2003x and y. Ear-training. Level IV.

Modulations and extended musical passages, for dictation and sight-singing. Prerequisite: V2002 or equivalent achievement in the ear-training placement examination. Sections Ia and Ib. Instructors to be announced. M W 9.

V2100x-V2101y. Theory I and II.

Autumn Term: modal counterpoint in two parts; all species (five), invertible counterpoint at the octave and the twelfth, and canon. Spring Term: Diatonic harmony in four parts; triads and transformations (inversions and diatonic seventh chords); techniques of prolongation, embellishment, tonicization, and auxiliary (neighbor) modulations. Prerequisite: a grade of B-minus or higher in Section Ic of Music V1329 or on an equivalent examination given by the Department of Music and on the placement test for ear-training. Corerequisite: an appropriate level of the ear-training sequence (until completion of that

sequence) as indicated by the placement test. Section Ia. Professor Edwards. Ib. Mr. Schubert. Ic. Instructor to be announced. Tu Th 1:10-2:25. Lab. Tu Th 12. Section II. Instructor to be announced. M W 5:40-6:55. Lab. M W 7.

V2101x, V2100y. Theory II and I.

Professor Baker. Tu Th 1:10-2:25. Lab. Tu Th 2:30-3:20.

V2300x-V2301y. Theory III and IV.

Eighteenth-century harmonic and contrapuntal techniques; double counterpoint, canon, two-part writing in the form of binary movements, inventions, and contrapuntal settings of chorale tunes. Prerequisite: a grade of B-minus or higher in Music V2101, or on an equivalent examination given by the Department of Music, and Music V2000 or Music V2001. Corequisite: an appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test. Section Ia. Professor Lifchitz. Ib. Instructor to be announced. Tu Th 10:35-11:50. Section II. Professor Hatch. M W 5:40-6:55.

V2303x. Theory V.

Analysis of selected eighteenth- and nineteenth-century works. Prerequisite: V2300-V2301 or the equivalent. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Section I. Professor Carpenter. Tu Th 10:35-11:50. Section II. Professor J. Baker. Tu Th 5:40-6:55.

V2305y. Theory VI.

Introduction to harmonic and contrapuntal techniques and structural principles of twentieth-century music; analysis of selected twentieth-century works. Prerequisite: V2303 or equivalent. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Section I. Professor Carpenter. Tu Th 10:35-11:50. Section II. Professor J. Baker. Tu Th 5:40-6:55.

V3239x-V3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. One course credit is given for the two semesters. Prerequisite: V2301 or written permission of the instructor. V3239x. Instructor to be announced. V3240y. Professor Zuckerman. Tu 1:10-3.

V3241x-V3242y. Advanced Composition.

A continuation of Music V3239x-V3240y. Prerequisite: V3239x-V3240y and permission of the instructor. Professor Lifchitz. W 1:10-3.

V3373x-V3374y. Orchestration, Conducting and Score Reading.

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: V2101 or the equivalent. Section I. Professor Doris. M W F 11. Section II. V3373x. Professor Lifchitz. V3374y. Professor Zuckerman. Tu Th 5:40-6:55.

PERFORMANCE ACTIVITIES (APPLIED MUSIC)

A detailed description of the following activities is given in **A Guide to Barnard**.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

V1591x-V1592y. University Orchestra and Chamber Music.

Auditions during registration period by appointment. Room 703 Dodge. Students who register for orchestra alone will receive one course credit for four semesters, and will be charged at the rate of one-

quarter course each semester. Students who register for orchestra and chamber music will receive one course credit for two semesters, and will be charged at the rate of one course each semester. Professor Shanet and staff. M 5:30-7:30 and additional rehearsals in the three weeks preceding each public concert.

V1593x-V1594y. Barnard-Columbia Chorus.

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of one course credit for four or more semesters, and will be charged at the rate of one-quarter course each semester. Mr. Schubert. Tu Th 6-8.

University Bands.

Dr. Nierenberg. Auditions: Concert Band, during registration week and by appointment. Rehearsals: Tu Th 4-6.

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Instrumental Instruction.

Written permission from Professor Doris. Registration in these courses is limited to music majors and students enrolled in the Theory sequence. Students will receive one course credit for four semesters, and will be charged at the rate of one course each semester.



Professors

John Meskill,¹ Barbara Stoler Miller (Chairman; 321B Milbank Hall)

Other officers of the University offering courses listed below:

University Professor

W. Theodore deBary

Professors

Edward Allworth, Pierre J. Cachia, Tiber Halasi-Kun, David Sidorsky, H. Paul Varley, Alex Wayman, Herschel F. Webb, Ehsan Yarshater

Associate Professors

Kathleen R. F. Burrill, Maan Z. Madina, Theodore Riccardi, Jr.

Senior Lecturer

Jeanette Wakin

Assistant Professors

Dale L. Bishop, Richard J. Bowring, Edward W. Davis, Carol N. Gluck, Stephen Rittenberg, Marsha L. Wagner

Lecturers

Irene Bloom, G. A. Bournoutian, Christian Murch, Veena Talwar Oldenburg

¹Absent on leave, 1979-80.

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

Foreign Language Requirement for the Degree: The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the requirement in the respective languages: Akkadian G4204y, Arabic W1122y, Armenian W1124y, Chinese C1202y or F1202y, Hebrew W1122y, Hindi F1122y, Japanese C1202y or F1202y, Persian W1122y, Sanskrit G6102y, or Turkish W1122y.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard general requirement (2) only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese or Japanese language courses above the introductory level **must** pass a language placement test before registering. Placement exams are given during the week **before** classes begin—contact Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Persian, Sanskrit, or Turkish, contact Department of Middle East Languages and Cultures (609 Kent).

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3355x-V3356y or any two of the following courses: Oriental Civilizations V3359y, Oriental Civilizations V3361x, and East Asian V3201y.

(b) Four to six courses of an appropriate language details to be explained by the adviser.

(c) Four courses on East Asia chosen from among those listed below or, with the adviser's permission, from the listings of other departments (Oriental Humanities V3399x-V3400y may be substituted for one of the courses in this category).

(d) Two courses chosen from among East Asian seminars, East Asian W4103y, East Asian W4101x, and Oriental Studies 99x, 99y.

The Middle East Track

(a) Middle East-Oriental Civilizations V3102x-V3103y.

(b) Four to six courses of an appropriate language; details to be explained by the adviser.

(c) Five or six courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. See also the note on Graduate Courses at the end of this section.

A student who plans to major in Oriental Studies is advised to consult a member of the department in the spring semester of her freshman year. Upon completion of her program she will be prepared for further study in graduate school or some related professional training.

Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 87.

A minor in Oriental Studies consists of five courses, any two from those with the designation "Oriental Civilizations" and any three with the designation "Oriental Humanities."

GENERAL COURSES

Oriental Civilizations V3355x-V3356y. Introduction to the History and Culture of Oriental Societies.

The more important factors in the life of people of India, China, and Japan, and an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the problems of modernization. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: One course in history or permission of the instructor. Professor Rittenberg and staff. M W F 10. Fourth hour W 12.

Middle East-Oriental Civilizations V3102x-V3103y. Civilizations of the Middle East.

A survey of dominant patterns in the civilizations of Semitic, Indo-European, and Turkish-speaking peoples of the Middle East, from ancient to modern times. Autumn Term: geography, cultural identity, law, social order, authority. Spring Term: literature, art, religion, Western contacts. Professor Bishop. Tu Th 12:30-2.

Oriental Civilizations V3357x. Introduction to the Civilization of India.

A multidisciplinary introduction to Indian civilization, traditional and modern, with substantial attention to art and literature. Mrs. Oldenburg. Tu 10-12 and W 12:10-1.

Oriental Civilizations V3359y. Introduction to the Civilization of China.

The evolution of Chinese civilization from ancient times to the twentieth century, with emphasis on institutional, cultural, and intellectual patterns. Instructor to be announced. Tu 2:10-3, Th 2:10-4.

Oriental Civilizations V3361x. Introduction to the Civilization of Japan.

The development of Japanese society and culture from the sixteenth century to the present, with special attention to national self-image and values as revealed in thought, institutions, literature, and the arts. Professor Webb. Tu 2:10-3, Th 2:10-4.

[Oriental Civilizations V3001x-V3002y. Introduction to Islamic Civilization. Not given in 1979-80.]

[Oriental Studies V3379x. Readings in Oriental Studies.

Professor Meskill. Not given in 1979-80.]

[Oriental Studies V3507x. Seminar on Comparative Studies in Asian Civilizations.

Not given in 1979-80.]

Oriental Humanities V3399x, V3400y. Colloquium.

Section I. Reading and discussion of major works of Middle Eastern, Indian, Chinese and Japanese ori-

gin, including (V3399x) the Koran, Sufi poetry, Upanishads, Buddhist sutras, the *Bhagavad Gita*; and (V3400y) the *Analects*, the *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry. Prerequisite: two courses from among literature, philosophy, religion, and Humanities, or permission of instructor. Professor deBary and staff. W 4:10-6. Section II. V3400y only). A selection of the Indian and East Asian works only, treated comparatively. Prerequisite: same as Section I. Professor Miller and Dr. Murck. Tu 4:10-6. V3400y: Students who wish to include V3399x in their program may not take Section II.

Oriental Humanities V3340x. Masterpieces of Art in China, Japan, and Korea.

Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature. Instructor to be announced. Tu Th 10:35-11:50.

[Oriental Humanities V3350y. Origins of Political Philosophy in Greece and China.

Dr. Bloom. Not given in 1979-80.]

Oriental Humanities V3200x. Oriental Encounters: The American Experience.

Oriental classics of India, China, and Japan viewed through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Merton, Kerouac, Ginsberg, and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other sources relevant to the work of these writers. Professor Miller. Tu 2:10-4, plus conference hours.

[Oriental Humanities V3403y. Forms of Art in India.

Professor Miller. Not given in 1979-80.]

[Middle East-Oriental Humanities V3030y. Islamic Literature in Translation I.

Professor Burrill. Not given in 1979-80.]

[Middle East-Oriental Humanities V3031y. Islamic Literature in Translation II.

Professor Burrill. Not given in 1979-80.]

Oriental Studies-Philosophy C3915y. Philosophical Problems in Human Rights: A Comparative Analysis of Eastern and Western Traditions.

A critical examination of the idea of human rights in Western and Eastern traditions. Primary focus is on investigation of the plural sources for contemporary interpretations of human rights, including classic works of Western and Eastern moral and political philosophy. Philosophical analysis of the conceptual and methodological questions present in determining the meaning, scope, and justification of human rights is undertaken. The relevance of this analysis for practical aspects of contemporary discussions of international rights questions is explored. Professor Sidorsky and Dr. Bloom. Hours to be announced.

[Oriental Studies V3509y. Oriental Thought.

Professors Danto and Embree. Not given in 1979-80.]

Oriental Studies 99x, 99y. Independent Study.

Specialized reading and research projects will be planned in consultation with members of the Oriental Studies teaching staff. Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project. Hours to be arranged.

EAST ASIAN

East Asian V3201y. Introduction to East Asian Civilization: Korea and Vietnam.

A survey of Korean and Vietnamese history and culture, including a comparative analysis of the special problems of these "buffer" states within East Asia in both traditional and modern times. Professor Ledyard. M W 4:10-5:25.

East Asian V3415x. Elite Culture and Popular Culture in Traditional China.

The content of the "great" and "little" traditions and their interaction in Chinese literature, society, politics, and religion from early times to the 19th century. Instructor to be announced. Tu Th 2:40-3:55.

East Asian V3420y. Chinese Social and Political Ideology in Transition: 1850-1968.

Major trends in Chinese social and political ideology, stressing the evolution from Western-inspired

criticism and protest to new orthodoxies as revealed in 19th and 20th century Chinese journalism and fiction, in translation. Instructor to be announced. M W 2:40-3:55.

[East Asian V3510x. Chinese and Japanese Poetry.

Professor Wagner. Not given in 1979-80.]

[East Asian V3540x. Processes of Modernization in China and Japan.

Professor Varley and second instructor. Not given in 1979-80.]

East Asian V3520x. Two Great Novels and Their Worlds: *Tale of Genji* and *Dream of the Red Chamber*.

The two masterpieces of Japanese and Chinese fiction, in translation, and through them a close look at the society which they reflect. Professor Wagner. M W 4:10-5:25.

East Asian V3610y. Social Change Reflected in the Literature and Films of Modern Japan.

The changes in society and values during the modernization of Japan from the mid-19th century until the present, using fiction, diaries, popular culture, and films as source materials. Professor Gluck. M 1:10-2:25.

[East Asian V3620x. Epochs of Japanese Culture.

Professor Varley. Not given in 1979-80.]

East Asian W3901x. Senior Seminar: China.

Prerequisite: Permission of Professor Gluck (departmental representative). Staff. Hours to be arranged.

East Asian W3904y. Senior Seminar: Japan.

Prerequisite: Permission of Professor Gluck (departmental representative). Staff. Hours to be arranged.

East Asian W4101x. Critical Approaches to Chinese and Japanese Literature.

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. Professor Bowring. Tu Th 9:10-10:25.

East Asian W4103y. Historiography of East Asia.

Major issues in the practice of history illustrated by a comparison of the works of great occidental and oriental historians, with special emphasis on China. Instructor to be announced. F 1:10-3.

History-Japanese W3600x. World War II in American and Japanese History.

From the separate and differing viewpoints of the two nations, an examination of the war as a central experience in the recent history of both. Emphasis on the meaning and impact of the war on social, political, and intellectual life in the period from the Depression through Vietnam. Professor Gluck, with lectures by H. F. Graff, W. P. Metzger, J. P. Shenton, and others. M W 11-12:15.

MIDDLE EAST

Armenian W4101x-W4102y. Introduction to Armenian Civilization.

Prerequisite: permission of the instructor. G. A. Bournoutian. Th 4-6.

Central Asian W4003x. History of Central Asia in Modern Times.

Professor Allworth. W 11-12:50.

[History W4825x-W4826y. History of Modern India and Pakistan.

Professor Rittenberg. Not given in 1979-80.]

History-Middle East W4415x-W4416y. The Medieval History of the Ottoman Turks.

Professor Halasi-Kun. W 4:10-6.

History-Middle East W4469x. Political, Social and Cultural History of Persia in Modern Times.

Professor Yarshater. Tu 4:10-6.

[Indic G4102y. History and Cultures of the Himalayan Area.

Professor Riccardi. Not given in 1979-80.]

Indic-Religion G4301y. Hindu and Buddhist Tantrism.

Professor Wayman. W 11-12:50.

Indic-Religion G4335x. History and Doctrine of Indian Buddhism.

Professor Wayman. W 11-12:50.

Iranian W3120x. Iranian Civilization before Islam.

Professor Yarshater. Tu Th 10:30-12.

Iranian W3121y. Iranian Civilization during the Islamic Era.

Professor Davis. Tu Th 10:30-12.

[Islamic W4302x. Emergence of the Arab Nationalist Idea.

Professor Madina. Not given in 1979-80.]

Islamic W4452y. Islamic Law.

Mrs. Wakin. Hours to be announced.

Middle East W4108x. Middle Eastern Drama.

Professor Allworth. W 11-12:50.

[Middle East W4512y. Literature of the Mystics in the Middle East.

Professor Burrill. Not given in 1979-80.]

Turkish G4111x. Turkish Folk Literature I.

Professor Enginun. Tu 2:10-4.

Turkish W4117x. The Influence of English Dramatists and Poets on Modern Turkish Literature.

Professor Enginun. Th 2:10-4.

General courses related to Oriental Studies:

Anthropology V3013y. Village India.

Professor Klass.

History W4801y. The Indian Ocean.

Professors Roff, Bulliet, and others.

Political Science 24. Colloquium on Asian Political Thought.

Professor Dalton.

Religion V1102x or V1102y. Introduction to the Study of Religion: Eastern Religions.

See section assignments.

Also note offerings under Eastern Religions in the Religion Department.

ORIENTAL LANGUAGE COURSES

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindi-Urdu, Japanese, Persian, Sanskrit, Turkish.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

Philosophy

Professors

Sue Howard Larson, Mary Mothersill (Chairman; 326D Milbank Hall)¹

Associate Professor

David Hoy

Lecturer

Marshall Cohen

Assistant Professors

Jeffrey Miles Blustein, Rebecca Goldstein

¹Absent on leave, Spring Term.

The major in philosophy is designed to develop competence in the techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophical theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department.)

A student who majors in philosophy is required to take eight courses including the following: Logic (C3415x or y or F3401y); one of the following five: 9, 63, V3803y, 72x, 76y; one of the following four: V3501y, V3601x, 79y, 50x; two of the following six: V3222x, V3240y, V1101x, V1201y, 37y, 61y; two semesters of the majors' seminar 88x-89y; one elective.

1x or 1y. Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. Section I. Not given in 1979-80. Section II. Professor Blustein (Autumn Term), Professor Hoy (Spring Term). M W F 10. Section III. Professor Larson. M W F 11. Section IV. Professor Hoy (Autumn Term), Professor Blustein (Spring Term) M W F 12. Section V. Professor Goldstein. Tu Th 10:35-11:50.

9. Ethics.

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: one philosophy course or permission of the instructor. Professor Mothersill. Tu Th 10:35-11:50.

29y. Philosophy of Law.

An examination of major conceptions of law, the judicial decision process, and the moral basis of property, liability, and punishment. Professor Cohen. M 2:10-4. Conference hours to be arranged.

[V3803y. The Concept of Beauty.

Professor Mothersill. Not given in 1979-80.]

63. Attitude, Action, and Reason.

The role of the ideal of rationality in understanding human attitudes and actions. Topics include: intentional action, reasons and causes, speech and thought, the indeterminacy of translation, the autonomy of meaning and choice. Readings from classical and contemporary sources including Aristotle, Descartes, Spinoza, Hume, Wittgenstein, Anscombe, Davidson. Prerequisite: one philosophy course or permission of the instructor. Professor Larson. M W 2:40-3:55.

V3222x. Descartes, Spinoza and Leibniz. (formerly V3350)

A systematic analysis of concepts central to seventeenth century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relationship to logical theory and philosophy of science. Prerequisite: one philosophy course or permission of the instructor. Professor Goldstein. M W F 10.

V3240y. Locke, Berkeley and Hume. (formerly V3351)

A study of the principal topics of British Empiricism. Problems discussed include: Sense perception and innate ideas, the foundations of empirical knowledge, substance and cause, personal identity, freedom of the will, the grounds of political authority, justice and obligation. Prerequisite: one philosophy course or permission of the instructor. Professor Blustein. M W F 10.

V1101x. The History of Philosophy: Pre-Socratics through Augustine. (formerly V1103)

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. Professor Walsh. M W 2:40-3:55.

V1201y. The History of Philosophy: Aquinas through Kant. (formerly V1104)

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant. V1101 is not a prerequisite for this course. Professor Walsh. M W 2:40-3:55.

V3855x. Philosophical Implications of the Modern Novel. (formerly 43)

A study of the relation of philosophy to literature through an examination of philosophical themes in literary texts and of literary strategies in philosophical texts. Professor Kuhns. M W 2:40-3:55.

V3850x. Concept of Literature.

An analysis of linguistic art, oral and written. Philosophical problems raised by tradition, style, rhetorical analyses, metaphor, and other tropes, as well as by the thought, and claims of truth. Relationships between philosophy and literature are explored. Students are required to carry on individual research. Professor Hoy. Tu Th 1:10-2:25.

50x. Philosophy of Body.

Analysis of the general concepts of material body and the more specific concepts of animate, conscious, and human body as they appear in the works of Aristotle, Galileo, Descartes, Locke, Merleau Ponty, Sartre, and other contemporary writers. Among topics to be considered: concepts of matter, criteria for individuation of bodies, relation of persons to their bodies. Prerequisite: one philosophy course or permission of the instructor. Professor Goldstein. M W 1:10-2:25.

51x. Duty and Feeling: The Ethics of the Family.

A philosophical examination of moral and social policy issues in connection with the contemporary family. Topics include: the duties and rights of parents and children, marriage, population control, women's liberation and the family, equal opportunity and the family. Readings from Kant, Aristotle, Hume, Locke, Russell, Plato, and contemporary legal, sociological, and philosophical literature. Prerequisite: one philosophy course or permission of the instructor. Professor Blustein M W F 12.

[61y. Greek Philosophy. Not given in 1979-80.]**64x. Wittgenstein and his Influence.**

An introduction to the work of Ludwig Wittgenstein with attention to his influence upon philosophers and non-philosophers. Basic readings will be from Wittgenstein's major works with additional readings from artists, writers, critics, and social scientists who claim him as a source of inspiration. The course will explore one form of the relationship between philosophical work and its contemporary cultural setting and is open to students without previous training in philosophy. Prerequisite: one philosophy course or permission of the instructor. Professor Larson. Tu Th 1:10-2:25.

38. Recent European Philosophy.

A study of contemporary developments in continental philosophical movements such as phenomenology, hermeneutics, neo-Marxist critical theory, structuralism and poststructuralism. Readings include works by Derrida, Foucault, Habermas, Gadamer and Heidegger, supplemented by readings from Anglo-American philosophers. Prerequisite: one philosophy course or permission of the instructor. Professor Hoy. Tu Th 1:10-2:25.

72x. Ethics and Medicine.

A philosophical examination of some of the moral issues that have arisen in medical theory and practice. Topics to be discussed will be drawn from the following: right to receive health care treatment,

Philosophy

euthanasia, abortion, experimentation on human subjects, behavior control, allocation of scarce medical resources, and eugenics. Readings from philosophical, medical, and legal literature. Permission of the instructor required. Professor Blustein. Tu Th 2:40-3:55.

[76. Social Philosophy. Seminar. Not given in 1979-80.]

V3501y. Theory of Knowledge. (formerly W3188 and 77)

Contemporary issues in the theory of knowledge, and their historical sources. Prerequisite: one term of philosophy. Professor Goldstein. Tu Th 1:10-2:25.

79y. Theory of Meaning.

Consideration of the nature of language and of truth with special attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Tarski, Austin, Davidson, and others. Prerequisite: one philosophy course or permission of the instructor. Instructor to be announced. M W 2:40-3:55.

V3601x. Metaphysics. (formerly V3123)

Systematic treatment of some major metaphysical topics, e.g. necessity, causality, particulars and universals, personal identity. Readings from classical and contemporary authors. Prerequisite: one philosophy course or permission of the instructor. Professor Berofsky. M W 2:40-3:55.

84. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling, "de-schooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illich, Neil, and current periodical literature. Not open to freshmen. Professor Blustein. Tu Th 1:10-2:25.

53. Philosophy of Psychology.

An examination of philosophical questions concerning the nature of a science of psychology and of questions related to specific psychological theories such as behaviorism, psychoanalytic theory, and rationalist psychology. Topics to be discussed include the possibility of an explanation of behavior, the irreducibility of psychology to the physical sciences, the ontological status of theoretical constructs, innate ideas, concepts of madness. Readings from Skinner, Freud, Fodor, Chomsky, Quine, and Davidson. Prerequisite: one philosophy course. Professor Goldstein. M W 1:10-2:25.

88x-89y. Majors' Seminar.

An intensive study of selected philosophical classics. Discussions, oral reports and term papers. Required of all majors. Professor Hoy. W 4:10-6. Conference hours to be arranged.

99x, 99y. Supplementary Readings in Philosophy.

To be taken only with the consent of the instructor and permission of the department.

COLUMBIA COLLEGE AND SCHOOL OF GENERAL STUDIES COURSES

C1010x or y. Methods and Problems of Philosophic Thought. C1010x. Professor Sidorsky. C1010y. Professor Danto. Tu Th 10:35-11:50.

W3121y. Plato. Professor Patterson. Tu Th 1:10-2:25.

W3278x. Nietzsche. Professor Clark. W F 11-12:15.

W3301y. Twentieth-Century Philosophy. Professor Sidorsky. M W 11-12:15.

W3350y. Existentialism. Limited to 35 students. Prerequisite: the department's permission. Professor Cumming. Tu Th 2:40-3:55.

C3415x or y. Formal Logic. C3415x. Instructor to be announced. M W F 10-10:50. C3415y. Professor Sieg. Tu Th 9:10-10:25.

W3470x. Philosophy of Mathematics. Professor Stein. Tu Th 9:10-10:25.

C3572y. Method and Metaphysics in the Development of Physical Theories. Professor Stein. M W 4:10-5:25.

C3577x. Aristotelian Science and the Early Modern Scientific Revolution. Professor Larmore. M W 11-12:15.

W3590y. Philosophy of the Social Sciences. Professor Morgenbesser. Tu Th 10:35-11:50.

C3701y. Moral Philosophy. Instructor to be announced. M W F 9.

F1401x. Elementary Logic. Dr. Cauman. M W 6:10-7:25.

F3410y. Formal Logic. Dr. Cauman. M W 6:10-7:25.

Consult Columbia College Bulletin for course descriptions.



Physical Education

Professor

Marion R. Philips (Chairman; 201 Barnard Hall)

Associate Professor

Edith Mason

Associates

Marjorie Greenberg (Director of Athletics; 310 Barnard Hall), Patricia Samuel

Instructor

Marian Rosenwasser

Curricular

The curriculum is organized and administered by the faculty of the Department of Physical Education in cooperation with the Health Service. Courses are offered in twenty skills in the area of sports, aquatics, movement, and fitness. Multiple sections are taught in four skill levels—beginning, low intermediate, intermediate, and advanced.

The intercollegiate athletics program is an integral part of the Physical Education program.

Dance courses are organized by the Dance Department and may be taken to fulfill the Physical Education requirement.

Extra-Curricular

The Recreation and Athletic Association conducts intramurals and plans recreation programs. The Council on Intercollegiate Athletics presently sponsors varsity teams: Archery, Basketball, Fencing, Swimming, Tennis, Track, and Volleyball. Teams enjoy competitive schedules within the metropolitan area and also have the opportunity to participate in Ivy League, NYSAIAW, EIAIW, and AIAW Championships.

Health Status

The evaluation of the health status of students by the College Physician influences the programs the students elect.

Posture Analysis

Freshman students may elect to have a complete posture analysis with follow-up examinations. A course, Posture Laboratory, P.E. 86, is offered for students who wish to improve body alignment.

Requirement

Completion of two semesters in the freshman year and two semesters beyond the freshman year. Transfer students are required to have two semesters' credit beyond the freshman year. Transfers, who enter as second semester freshmen, must also complete one course in the freshman year at Barnard.

Registration

Students are sent preregistration forms each semester in time to have registration confirmed before filing programs with the registrar. Students must include physical education courses by **number, title, section** and **sequence number** on final programs to be filed with the registrar. Students who do not preregister may register the first two days of the semester in the gymnasium. Columbia University students must receive **permission of the Physical Education Department** to register.

Courses

The complete schedule of courses is sent to each student and is available in the Physical Education Department, 209 Barnard Hall. Students are advised to register according to their own skill level: Beginner = (A), low intermediate = (B), intermediate = (C), advanced = (D). An agreement between the Departments of Physical Education of Barnard College and Columbia College will permit limited enrollment in some Columbia courses by Barnard students.

AQUATICS COURSES

20x. Advanced Life Saving. M W 3:10-4:30.

20y. Advanced Life Saving. Tu Th 3:10-4:30.

21y. Water Safety Instructors Course. M W 3:10-4:30.

22x or y. Beginning Swimming. (A)

Section I. M W 12:10. Section II. M W 2:10. Section III. Tu Th 12:10. Section IV. Tu Th 2:10.

23x or y. Intermediate and Advanced Swimming. (C,D)

Section I. M W 11. Section II. M W 1:10. Section III. Tu Th 11. Section IV. Tu Th 1:10.

24x. Advanced Swimming. (D) Tu Th 3:10-4:30.

27x or y. Swim-and-Stay-fit. (D)

Section I. M W 10. Section II. Tu Th 10.

Not open to first semester freshmen.

FOLK DANCE COURSES

40x or y. Beginning Folk Dance. (A)

Section I. M W 11. Section II. M W 12:10.

41x. Low Intermediate Folk Dance. (B) M W 10.

42. Greek and Related Balkan Dance. (B) M W 10.

43x or y. American-British Dance. (A,B) M W 9.

44x or y. Low Intermediate Israeli Dance. (B) M W 1:10.

SPORTS COURSES

50x or y. Beginning Archery. (A) Tu Th 1:10.

51x or y. Intermediate and Advanced Archery. (C,D) Tu Th 12:10.

53x or y. Badminton. (A,B,C,D) M W 1:10.

55x or y. Basketball. (A,B,C) M W 4:10.

57x or y. Beginning and Low Intermediate Bowling. (A,B)

Section I. M W 10. Section II. M W 11. Section III. Tu Th 10. Section IV. Tu Th 11. Section V. Tu Th 12:10.

58x or y. Open Hour Bowling. (C,D)

Not open to first semester freshmen. Professor Philips. Section I. M W 12:10. Section II. M W 1:10. Section III. Tu Th 9. Section IV. Tu Th 1:10.

60x or y. Beginning Fencing. (A) Section I. Tu Th 10. Section II. Tu Th 11.

61x or y. Low Intermediate and Intermediate Fencing. (B,C) Tu Th 1:10.

64x or y. Beginning Tennis. (A)

Section I. M W 11. Section II. M W 2. Section III. Tu Th 10. Section IV. Tu Th 3:10.

65x or y. Low Intermediate Tennis. (B)

Section I. M W 10. Section II. Tu Th 11. Section III. Tu Th 2:10.

66x. or y. Intermediate Tennis. (B)

Section I. M W 9. Section II. Tu Th 9.

67x or y. Intermediate and Advanced Tennis. (C,D)

Permission of the instructor required. M W 3:10.

Physical Education

70x or y. Volleyball. (A,B) M W 12:10.

71x or y. Intermediate and Advanced Volleyball. (C,D) Tu Th 4:10.

SPECIAL COURSES

80x or y. Beginning Movement Workshop. (A) M W 12:10.

83x or y. Beginning Body Conditioning. (A)

Section I. M W 10. Section II. M W 11. Section III. Tu Th 2:10.

84x or y. Intermediate Body Conditioning. (C) M W 1:10.

85x or y. Weight Training. (Universal Weight Machine) M W 2:10.

86x or y. Posture Laboratory. Tu Th 12:10.

88x or y. Relaxation. Section I. M W 3:10. Section II. Tu Th 1:10.

90x or y. Beginning Self Defense. (A) Section I. Tu Th 2:10. Section II. Tu Th 3:10.

91x. or y. Intermediate Self Defense (C) Tu Th 4:10.

93x or y. Beginning Yoga. (A) Section I. M W 4:10. Section II. Tu Th 9.

94x or y. Intermediate Yoga. (C) Tu Th 10:35-11:50.

98x or y. Varsity Teams. Approval of Director of Athletics required.

99x or y. Independent Study.

Approval of Department required. Limited to one semester of credit. Not open to first semester freshmen.

DANCE

See Dance Program (Pages 65-66) for course listings.

Dance courses 30-47 may be taken to fulfill the Physical Education requirement. Courses offered are:

Ballet—Beginning, Low Intermediate, Intermediate.

Jazz—Low Intermediate, Intermediate.

Modern—Beginning, Low Intermediate, Intermediate, Advanced.

Tap—Beginning, Intermediate.



Professors

Richard M. Friedberg (Chairman; 503 Altschul Hall), Samuel Devons (Director of History of Physics Laboratory)

Assistant Professor

Martin Purvis

Other officers of the University offering courses listed below:

Professors

Charles Baltay, Norman Christ, Gerald Feinberg, Henry M. Foley, Paolo Franzini, William Happer, Sven R. Hartmann, Wonyong Lee, Robert Novick, James Rainwater, Malvin Ruderman, Allan M. Sachs, Chien-Shiung Wu

Assistant Professors

Jerome Finkelstein, Joel Groves, Erick Weinberg

The study of physics ranges from preparation for professional work in physics or for the study of other sciences to a more general familiarity with physics and its historical development as part of contemporary culture. Besides a thorough preprofessional curriculum, the department offering includes courses using Barnard's History of Physics Laboratory, oriented particularly to the broader perspective.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C1001x-C1002y, V1305x-V1306y and W3001x-W3002y are intended for liberal-arts students whose aim is to achieve some qualitative understanding of science. Either V1305x-V1306y or W3001x-W3002y, both of which include experimental work, satisfies the science requirement of Barnard College.
2. Either V1003, V1004 or V1103, V1104 is satisfactory preparation for medical school. Both cover the same material. But V1103, V1104 is somewhat more intensive and is designed for students majoring in sciences other than physics. Neither course is recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the Autumn Term in C1006x, which begins a four-term sequence (C1007y or C1107y, C1011x, C1012y) leading to more advanced courses. (These introductory courses may be taken without laboratory by nonmajors. See the Columbia College catalogue for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C1021, C1022, which replaces the first three terms of the sequence starting with C1006. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The major includes C1006, C1107, C1011, C1012 or C1021, C1022, C1012, with lab in either case; W3003, W3007, W3008, G4003, G4015, G4016, and at least one more semester at the G4000 level; W3072, W3083, and six additional hours of intermediate lab (W3081 and 11, 12) of which at least four hours must be in W3081. Four terms of calculus are essential, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy or biology may be substituted. The major examination consists of the Undergraduate Record Examination in physics and a one-hour oral examination.

V1305x, V1306y. Discovery and Experiment in Physics.

Topics in the history of physics with experimental work in the History of Physics Laboratory. Critical study of primary sources and discussions of historic experiments in physics from the 17th to the 20th century. This course fulfills the Barnard science requirement. It is oriented primarily to non-science students. Enrollment limited. Permission of the instructor required. Professor Purvis. Lec. Tu Th 1:10-2:25. Lab. (2 hrs) Tu 2:35-4:25, W 2:10-4, Th 2:35-4:25.

Physics

C1001x, C1002y. Elementary Physics.

An introduction to physics for students with no previous background. The course deals briefly with pre-twentieth century physics, and concentrates on relativity and subatomic physics. It uses very little mathematics. This course does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students. Professor Feinberg. Lec. Tu Th 11-12:15. Discussion: 1 hour to be arranged.

V1003x, V1004y. General Physics.

The study of mechanics and heat, electricity, magnetism, optics, and modern physics. Calculus is not a prerequisite for this course. Instructor to be announced. Lec. and Recit. M W F 11. Lab. 3 consecutive hours to be chosen from M Tu W Th F 1:10-4 or 4:10-7. Recitation and laboratory sections are arranged after the first class meeting.*

V1103x, V1104y. General Physics.

The same topics as V1003-V1004 discussed at a somewhat higher level, using calculus. Prerequisite: Calculus I and II. Instructor to be announced. Lec. M W F 11. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Lab. hours same as V1003-V1004. Laboratory is required of all students wishing to receive credit for this course.*

C1006x. General Physics I. Mechanics.

Fundamental laws of mechanics: kinematics; dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics. Parallel: Calculus I or the equivalent. Instructor to be announced. Lec. and Recit. Sections I and II. M W F 9. Section III. Tu Th 11-12:15. Lab. to be arranged.*

C1007y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: C1006. Parallel: Calculus II or the equivalent. Instructor to be announced. Lec. and Recit. Section I. M W F 9. Lab to be arranged.*

C1107y. General Physics II. Electricity and Magnetism.

The topics of C1007 are considered in greater depth, with less time spent on routine applications and with extended treatment of some of the more advanced topics. Prerequisite: same as for C1007y. Instructor to be announced. Lec. and Recit. M W F 9. Lab to be arranged.*

C1011x. General Physics III. Optics and Thermodynamics.

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. Prerequisite: C1006. Parallel: Calculus III. Instructor to be announced. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.*

C1012y. General Physics IV: Modern Physics.

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. Prerequisites: C1011x and C1007 or C1107. Instructor to be announced. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.*

C1021x, C1022y. General Physics.

Mechanics, heat, electricity, magnetism, and light. Prerequisite: advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.) Intended primarily for freshmen with special ability in mathematics and physics. Instructor to be announced. Lec. M W 4:10-5:25. Lab. to be arranged.*

*No changes in laboratory assignments will be possible after the second class meeting.

11, 12. History of Physics Laboratory.

Individual studies. Experimental investigations which played a major role in the logical and historical development of physics are studied by both laboratory and literary work. Students working individually or in collaboration with another student choose one or two examples (ranging from physics in the 17th to the 20th century) and study these thoroughly, with some guidance. Prerequisite: Good basic knowledge of physics and permission of the instructor; aptitude for laboratory work; individual initiative. Professor Devons. Hours by arrangement.

W3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. Instructor to be announced. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism.

A discussion of electrostatics, current flow, electromagnetism. The treatment is directed toward the formulation of Maxwell's equations and includes some applications associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisites: Physics C1007 or C1107 or the equivalent, and differential and integral calculus. Instructor to be announced. M W 11-12:15.

W3072y. Seminar in Current Research Problems.

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Permission of the department representative required. Open only to senior physics majors. Instructor to be announced. Th 4:10-5:25.

W3081x or y. Intermediate Laboratory Work.

Experiments in physical optics, electronic circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignments to a laboratory section and the schedule of experiments to be performed. Prerequisite: Physics W3003 or W3007, or permission of the instructor. Professor Rainwater. One four-hour period weekly. Hours to be arranged by the instructor.

W3083x or y. Electronics Laboratory.

A sequence of experiments in solid state electronics, with introductory lectures. Permission of the instructor required. Corequisite: W3003 or W3007. Registration is limited to the capacity of the laboratory. Instructor to be announced. M W 1-4.

History and Development of Science W3001x, W3002y. The Art of Scientific Experiment.

Professor Devons. Hours to be arranged. See Columbia College Bulletin for description.

GRADUATE COURSES

The following G4000 courses form an integral part of the undergraduate major program in Physics:

G4001x. Some Topics in the History of Physics: 17th to 20th Century.

Prerequisite: C1006 and C1007 and C1011 and C1012, or permission of the instructor. Professor Devons. Hours to be arranged.

G4003y. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and W3003 or equivalent. Instructor to be announced. M W F 10. Problem session (optional): hours to be arranged.

G4009x. Light.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. Instructor to be announced. M W F 10.

Physics

G4013x. Thermodynamics.

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple application of thermodynamics; microscopic interpretation of thermodynamics. Prerequisite: W3003 and W3007. Parallel: G4015. Instructor to be announced. Tu Th 2:40-3:55.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.

The experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: C1006, C1007, C1011, C1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics. Instructor to be announced. M W F 9. Problem session (optional): hours to be arranged.

G4040y. Nuclear Physics.

Properties of nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions, artificial radioactivity, neutrons, and nuclear fission. Prerequisite: G4015 or the equivalent. Instructor to be announced. Tu Th 11-12:15.

ASTRONOMY COURSES

For descriptions see the Columbia College Bulletin. These courses do not satisfy the science requirement.

C1103x. Contents of the Universe. Professor Morris. Tu Th 1:10, plus hour to be arranged.

C1104y. Topics in Cosmology. Professor Morris. Tu Th 1:10, plus hour to be arranged.

C1203x. Introduction to Astrophysics. Professor Lucy. M W 11-12:15.

C3102y. Planetary Dynamics and Physics of the Solar System. Professor Scharlemann. M W 11-12:15.

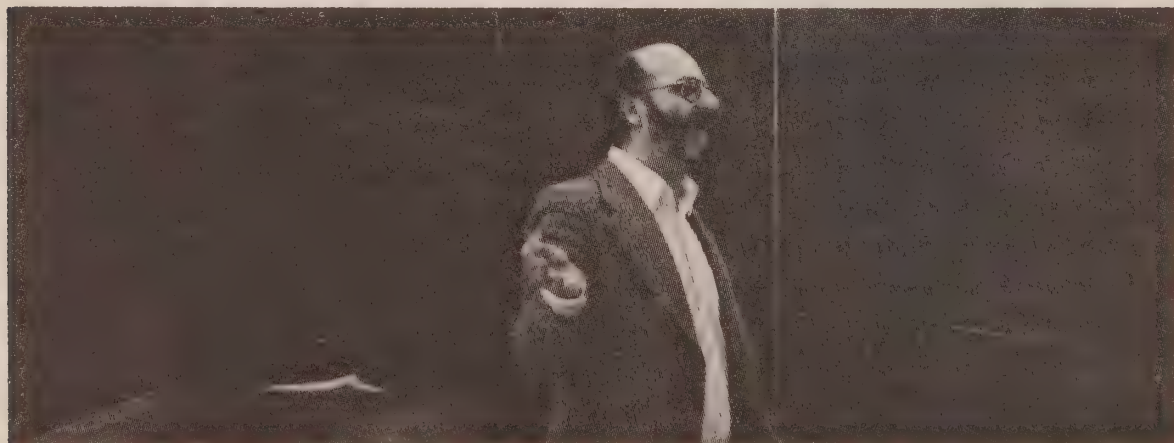
C3997x, C3998y. Seminar and Research Course. Staff. Hours to be arranged.

W3001y. Black Holes. Professor Spiegel. Tu Th 2:40-3:55.

G4201x. Basic Astronomical Data. Professor Scharlemann. Tu Th 1:10-2:25.

Astronomy-Geology V1044x. Stars, Planets, and Life. Professor Jastrow. Tu Th 6:10-7:25. Lab. hours to be arranged.

Astronomy-Geology V1444x. Stars, Planets, and Life. Lectures only.



Professors

Demetrios Caraley (Chairman; 408 Lehman Hall), Dennis Dalton, Peter Juviler

Associate Professor

Inez S. Reid

Assistant Professors

Debra Miller, Richard M. Pious

Instructors

Flora S. Davidson, Kathryn B. Yatrakis

Other officers of the University offering courses listed below:

Professors

Zbigniew Brzezinski,¹ Douglas A. Chalmers, Julian H. Franklin, Charles V. Hamilton, Roger Hilsman, Donald A. Puchala, Giovanni Sartori, Warner R. Schilling, Alan F. Westin

Associate Professors

Thomas P. Bernstein, John Ruggie

Assistant Professors

Gerald Finch, Thomas Horne, James H. Mittelman, Wilbur C. Rich, Glenda Rosenthal, Richard L. Rubin, Joan Spero, Eileen P. Sullivan

Lecturer

Seweryn Bialer

¹Absent on leave, 1979-80.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should also inquire about the five-year joint degree programs with the Graduate Program in Public Affairs and Administration, and with the School of International Affairs.

A student majoring in political science is required to take a minimum of nine semester courses from the Department's listed offerings including Courses 1; either 2, 11, 13, or 14; and two colloquia or other courses having a research paper from among those courses designated by an asterisk(*). A student majoring in urban studies with a concentration in political science is required to take a minimum of six semester courses including Courses 1, V3313, and two from among: 22, 26, 27, 28, 35, V3306, G8202. In order to have the opportunity for independent specialized work, and to explore more adequately the techniques of scholarly investigation, both majors and concentrators are required to write a senior essay as part of the work for the required two-semester research seminar (either Course 61-62 or V3711x-V3712y). A student minoring in political science is required to take a minimum of five semester courses including Course 1.

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Other social sciences: In view of the essential unity of the social sciences, students majoring in political science are urged to take at least three courses from among the following departments as selected in conference with the adviser: anthropology, economics, history, sociology.

Political Science

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

1. Dynamics of American Politics.

An introduction to political dynamics through an examination of the American political system at the national level. Particular attention is given to how political officials are chosen and replaced, how governmental decisions are made, and how governmental performance affects demands on and support for the political system. Section I. Professor Pious. M W 11-12:15. Section II. Mrs. Yatrakis. M W 2:10-3:25. Section III. Mrs. Davidson. Tu Th 1:10-2:25. Sign-up sheets for sections are posted outside 408 Lehman.

1y. Dynamics of American Politics.

Professor Pious. M W 11-12:15.

2. Comparative Politics.

A comparative study of authority, power, conflict and change in the Soviet Union, Tanzania, and a selected European country. Professor Juviler. Tu Th 10:35-11:50.

3. Electoral Politics.

The study of the American electoral process within the framework of political participation in general and the implications of such participation for democratic theory. Particular attention is given to political party politics, non-party electoral activity, and factors which influence voting behavior. Students are encouraged to participate in or observe at first hand some aspect of electoral activity. Mrs. Yatrakis. Tu Th 10:35-11:50.

4. Freshman Seminar in Government.

Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topic for Spring 1980, instructor, and hours to be announced in November.

7. Modern Political Movements.

An inquiry into the dynamics of political movements in this century, focusing on aspects of ideology and leadership. Case studies of communism, nationalism, anarchism, and fascism are examined in an international context after a theoretical discussion of the nature of movement politics. Professors Dalton and Juviler. Tu Th 10:35-11:50. Voluntary, ungraded discussion sections: Tu 12:10-1, or Th 12:10-1.

V3313y. American Urban Politics.

Patterns of government and politics in America's large cities and suburbs. Analysis of the urban socio-economic environment; the influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, the press, the general public, and the federal and state governments; the impact of urban governments on ghetto and other urban conditions. Professor Caraley. Lec. M 2:10-4 and discussion sections to be arranged.

W3611x or W3611y. International Politics.

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshmen with permission of the instructor. W3611x. Section I. Professor Spero. Tu Th 2:40-3:55. Section II. Instructor to be announced. M W 2:40-3:55. W3611y. Professor Miller. M W 2:40-3:55.

12. The United Nations in International Politics.

The position and role of the United Nations in the international political system, its fluctuating opportunities and limitations in the process of global conflict-management and conflict-resolution, and the evolving diversity of U.N. functions. Professor Miller. M W 2:40-3:55.

13,14. Political Theory.

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. Course 13 is prerequisite to Course 14. Professor Dalton. Tu Th 1:10-2:25.

SPECIALIZED COURSES

AMERICAN GOVERNMENT AND POLITICS

[V3306y. Political Economy of Cities. Not given in 1979-80.]

V3316x. The American Presidency.

Analysis of the growth of presidential power, the creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus. Prerequisite: Course 1 or equivalent. Professor Pious. M W 2:40-3:55.

22. The American Congress.

An inquiry into the dynamics, organization, and policy-making processes of the American Congress. Particular emphasis on the relationship of legislators with constituents, lobbyists, bureaucrats, the President, and with one another. Prerequisite: Course 1 or equivalent. Mrs. Davidson. Tu Th 10:35-11:50.

25. The Judicial Process.

Introduction to the American judicial system with emphasis on origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, the controversies over judicial review and the commerce clause. Prerequisite: Course 1 or a course in American history. Not open to students who have taken course C3399x. Professor Reid. Tu Th 9:10-10:25.

26. Problems in Civil Rights and Liberties.

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. Prerequisite: Course 1. Professor Reid. Section I (lectures). Tu Th 9:10-10:25. *Section II (colloquium). Hours to be arranged.

W3399x. The Supreme Court and American Politics.

The role of the judiciary and constitutional law in American politics, with emphasis on the U.S. Supreme Court. Issues of civil liberties, civil rights, federalism, and economic and social regulation are discussed. Students write a case study of one recent Supreme Court decision. Prerequisite: Course 1 and junior standing. Not open to students who have taken Course 25. Professor Westin. M W 11-12:15.

***C3400. Colloquium on the Law and Politics of Civil Liberties.**

The legal, political, interest-group, and psychological aspects of civil liberties and civil rights issues. Prerequisites: junior or senior standing, a course in American government, and permission of the instructor. Not open to students who have taken Course 26. Professor Westin. M 11-12:50.

***27. Colloquium on the Content of American Politics.**

Readings, discussions, and reports on changing cleavages and issues in American national politics. Prerequisite: Course 1 and permission of the instructor. Mrs. Davidson. W 2:10-4.

[28. Colloquium on Congressional Politics. Not given in 1979-80.]

Urban Studies 35x. Colloquium-Workshop in Urban Administration and Management.

Readings, discussions, and analysis of the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership, decision-making, bureaucracy, and budgeting and fiscal control. New York City will be used as a case study, and students will be encouraged to gain first-hand observation of administration and management through internships in appropriate agencies. Prerequisite: Course 1 or V3313 or the equivalent. Mrs. Yatrakis. Tu 2:10-4.

W3311x. The American Party System.

The party system and the electoral process as sources of stability and change in the American political system. Topics covered include: the impact of electoral change on regime institutions and policies; the relation between radical movements and political parties; electoral legitimation of social, economic, and political inequality; the limits of the electoral process as an instrument of political change. The course deals with historical as well as contemporary political events. Prerequisite: Course 1 and junior standing. Professor Rubin. Tu Th 1:10-2:25.

[V3407y. **Urban Black and Minority Politics.** Not given in 1979-80.]

G4245y. Race and Ethnicity in American Politics.

The historical and contemporary roles of various racial and ethnic groups: initiation, demands, leadership and organizational styles and orientation, benefits, and impact on the structures and outputs of governance in the United States. Prerequisite: Course 1 or V3313 and junior standing. Professor Hamilton. W 11-12:50.

***G8202y. Colloquium on Congress and Policymaking.**

The role of the Congress in national policymaking. Particular emphasis on the influence of committees, party leaderships, staffs, the President, interest groups, and constituencies. Case studies of congressional policymaking. Prerequisite: Course 1, junior standing, and permission of the instructor. Professor Caraley. Th 2:10-4.

FOREIGN GOVERNMENTS AND POLITICS

***20. Colloquium on Communism and Revolutionary Change.**

Consideration of questions raised by theoretical and reflective works on the causes, nature, and consequences of recent revolutions and counterrevolutions; development of major types of communist and other revolutionary movements in the twentieth century. Prerequisite: Course 2 or 7 or 21 or the equivalent and permission of the instructor. Professor Juviler. Th 2:10-4.

***21. Colloquium on the Politics of Social Change in the U.S.S.R.**

Case studies of the Soviet regime's responses to issues of social change with emphasis on problems of authority and human rights. Prerequisite: Course 2 or 7 or other formal study of Soviet government and permission of the instructor. Professor Juviler. Th 2:10-4.

[23. **African Politics.** Professor Reid. Not given in 1979-80.]

W3502y. Political Change in the Third World.

The impact of the world market, multinational corporations, and colonialism on non-Western societies. Political issues arising from social and economic changes. Political choices facing peasants, intellectuals, and ethnic minorities. Strategies to overcome underdevelopment, including revolution and reform. Critical analysis of theories of modernization, dependency, and historical materialism. Professor Mittelman. Tu Th 2:40-3:55.

[W3512x. **Democratic Politics in Western Europe.** Not given in 1979-80.]

W3522y. Communist Political Systems.

Concepts of comparative politics applied to the study of Communist societies (with stress on the USSR and China): theory and practice; political culture; political and economic institutions and modes of behavior; comparative stages of development and socio-political change. Prerequisite: Course 2 and junior standing. Instructor to be announced. Tu Th 2:40-3:55.

[W3018y. **Comparative Authoritarian Systems.** Not given in 1979-80.]

W3620x. Chinese Politics.

The domestic and foreign policies of China and the relationship between them. Focus on contemporary Chinese politics, including elite conflict, the role of ideology, and the great social transformations, with background information on Chinese political culture and pre-revolutionary responses to the challenges of imperialism and modernization. Prerequisite: Course 2. Professor Bernstein. Tu Th 9:10-10:25

W3621x. Japanese Politics.

An introduction to contemporary Japanese politics and major foreign policy issues. Focus on exploring a number of issues of concern in the analysis of Western democratic policies in the Japanese context. Professor Curtis. Tu 6:10-8. Discussion hour to be arranged.

W4410y. Parliamentary and Presidential Political Systems.

An examination of four systems in the Anglo-American tradition: the United Kingdom, Canada, Australia, and the United States. Emphasis on parliamentary and presidential institutions. Topics include: sovereign, executive, and emergency prerogatives; representation, confidence, and accountability; cabinets, advisory systems, and legislative-executive relations; cross-fertilization and diffusion of institutional innovations. Prerequisite: Course 1 and junior standing. Instructor to be announced. Tu 2:10-4.

G4461y. Latin American Political Behavior.

Comparative analysis of major groups and processes in Latin American politics. Prerequisite: Course 2 and junior standing. Professor Chalmers. Tu 2:10-4.

G4487x. The Dynamics of Soviet Politics.

The role of Marxism-Leninism in Soviet politics; the role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; the balance of political forces and pressures in the Soviet state. Prerequisite: Course 2 or 7 and junior standing. Dr. Bialer. Tu 9-10:50.

POLITICAL THEORY***16. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. Application form must be submitted to the instructor in advance for acceptance into the course. Mrs. Davidson. W 4:10-6.

***24. Colloquium on Asian Political Thought.**

Comparative analysis of Asian national experiences and political ideas, with particular attention to India and China. Prerequisite: Course 2 or permission of the instructor. Professor Dalton. Th 11-12:50.

[31y. Colloquium on American Political Thought. Professor Pious. Not given in 1979-80.]

***33y. Colloquium on Concepts of Political Theory.**

Exploration of the relationship between political theory and political science by (1) investigating selected theoretical concepts and problems within the context of the writings of classical and modern theorists and (2) examining their pertinence, utility, and limitations for the understanding of contemporary domestic and international politics. Permission of the instructor required. Professor Miller. Tu 2:10-4.

W3403x. Liberalism.

A study in the development of liberal democratic theory in England and the United States during the late nineteenth and twentieth centuries, with particular emphasis on the change from a laissez faire to a welfare state. Issues include changing conceptions of liberty, equality, and justice, and of the appropriate organization and role of government. Some criticisms of liberal democratic theory are also examined. The authors to be considered include J. S. Mill, Hobhouse, Green, J. Dewey, Dahl, Rawls, Hegel, Marx, Michels, Mannheim, Freud. Professor Sullivan. Tu Th 2:40-3:55.

W3404y. Marxism and Its Critics.

Marx's social and political thought, revisionists and fundamental critics, and selected contemporary approaches to Marxist theory. Readings from Marx, Bernstein, Lenin, Sorel, Mannheim, Freud, Marcuse, Sartre, and others. Professor Horne. Tu Th 4:10-5:25.

W3411x. Foundations of Western Political Thought: from the Greek Polis to the Formation of the Modern State.

Analysis and discussion of leading political theorists in their historical contexts. Among the authors considered are Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin. Professor Franklin. Tu Th 11-12:15.

W3412y. Modern Political Thought: from the Seventeenth Century to the Present.

Analysis and discussion of leading political theorists in their historical contexts. Among the authors to be considered are Harrington, Hobbes, Locke, Hume, Montesquieu, Rousseau, J. S. Mill, Hegel, Marx. Professor Sullivan. Tu Th 10:35-11:50.

Political Science

W4620y. Democracy and Its Critics.

Democratic theory and an examination of major themes of controversy. Professor Sartori. Tu 11-12:50.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

***18x. Colloquium on Problems in International Politics.**

Readings, discussions, and reports on selected problems in international politics. Topic for 1978: The threat and use of force, its overt and covert character as well as its utility and limitations in contemporary conflict-moderation and management. Permission of the instructor required. Professor Miller. Th 2:10-4.

W3612y. International Politics II: Advanced Topics in International Relations.

In-depth consideration of selected topics in international relations. The content of the course varies from year to year, but topics considered will generally include nationalism, imperialism, integration, arms racing, deterrence, and world systemic change. Prerequisite: Course 11. Professor Ruggie. M W 2:40-3:55.

C3655x. American Strategies in World Politics.

An analysis of the major revolutions in American foreign policy; special attention to World Wars I and II, and the response to nuclear weapons. Prerequisite: junior standing. Professor Schilling. M W 11-12:15.

W3656y. The Politics of Policy Making in Defense and Foreign Affairs.

The political process by which foreign and defense policy is made in the United States, including the roles of the President, Congress, State Department, CIA, the military, the press, interest groups, the attentive public, and the electorate, with particular attention to conceptual models of the politics of policy making. Prerequisite: junior standing. Professor Hilsman. M 4:10-6. Discussion hours to be arranged.

[W3801y. Western Europe Today: The Dilemma of Political Interdependence. Not given in 1979-80.]

COURSES FOR MAJORS AND CONCENTRATORS ONLY

Admission to particular sections of the senior seminar is limited. During Spring preregistration, students must obtain departmental approval for the section desired in the senior seminar.

G4910x. Principles of Quantitative Political Research.

Introduction to statistical analysis and data processing. Emphasis is on the principles of statistical inference and the logic of hypothesis testing. A written research report is required. Professor Finch. Th 4:10-6.

G4911y. Analysis of Political Data.

Applications of multivariate statistical techniques to various types of political data. Emphasis is on practical questions of research design and data processing. A written research report is required. Prerequisite: G4910 or permission of the instructor. Professor Finch. Th 4:10-6.

V3711x-V3712y. Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics. Section I. Professor Caraley. W 4:10-6. Section II. Professor Pious. W 4:10-6. Section III. Autumn Term: Professor Rubin. Tu 2:10-4. Spring Term: Professor Hamilton. M 11-12:50. Section IV. Professor Rich. Th 2:10-4. Section V. Mrs. Davidson. Th 4:10-6.

Note: Admission to Sections III and IV also requires permission of the Barnard chairman.

61-62. Research Seminar.

Discussions and conferences on the researching and writing of the senior essay. Section II. Professor Reid. Tu 4:10-6. Section III. Professor Juviler. Th 4:10-6. Section IV. Professor Dalton. Tu 4:10-6. Section V. Professor Miller. Tu 4:10-6.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and the School of International Affairs.

Professors

Lila Ghent Braine, Richard P. Youtz¹

Associate Professors

Barbara S. Schmitter, Rae Silver (Chair; 415C Milbank Hall)

Visiting Associate Professor

Thomas Perera

Assistant Professors

Peter Balsam,² George W. Kelling, Carol L. Raye, Susan R. Sacks, Frances F. Schachter, Sandra F. Stingle

Adjunct Assistant Professor

Donald E. Hutchings

¹Emeritus

²Absent on leave, Spring Term.

Psychology is concerned with the study of behavior and of human experience, and the departmental offerings reflect the diversity of approaches characteristic of the field. The program for majors provides students with a strong background in academic psychology, including many opportunities for first-hand laboratory experiences. A student may, in addition, gain valuable field experience through work at our own Toddler Center (directed by Professor Frances Schachter), and through placements in hospitals and clinics in the New York area. The department encourages student participation in research; our faculty are engaged in research in the following areas: psychology and women, learning, memory, social and cognitive development, personality theory, and sexual and parental behavior in animals.

Students begin work in psychology with a one-semester introductory course. Although the sequence of courses taken may vary considerably (depending on the desires of the individual student), general guidelines are provided; courses are designated at lower, middle or upper level.

A student majoring in psychology is required to take: Courses 1; 9; one, or both of 5 and 30; one or more, of 25, 38, 41; and other courses selected in consultation with her major adviser to complete the required 8 courses in the department. At least two of the eight must include laboratory work. It is recommended that Psychology 9 be taken in the sophomore year, and it must be taken no later than the junior year. Of the two teaching apprentice seminars offered (49 and 50) only **one** may be credited towards the major, although course credit may be obtained for both.

In addition to courses in psychology, a major must take at least one course in one of the following areas: anthropology, computer science, linguistics, philosophy, sociology. The major must also have a one-year laboratory course in biology, chemistry, or physics. All required courses outside of psychology must be taken for a letter grade. Beginning with the class of 1982, the grade must be C or better.

In their senior year, majors will take either the Graduate Record Examination in psychology, **or** they will register for the senior seminar (91-92) and prepare a research thesis.

A student minoring in psychology is required to take Courses 1 and 9, and three electives, one of which must be a laboratory course. Electives **exclude** the following courses: 49, 50, 65-66, and 99.

Students must preregister in the department for **all** courses.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking any two of the following Psychology courses: 5, 8, 12, 17, 27, 30, 48.

A laboratory fee of \$10 is charged for each laboratory course: 5, 8, 17, 27, 30, 48, and 56.

INTRODUCTORY COURSES

1x. Introduction to Psychology.

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.) Sections are limited to 45 students. Preregistration in the department is required. This course is prerequisite for all other courses. Section I. Not given in 1979-80. Section IIa. Instructor to be announced. M W F 10. Section IIb. Instructor to be announced. M W F 10. Section IIIa. Instructor to be announced. M W F 11. Section IIIb. Professor Raye. M W F 11. Section IVa. Instructor to be announced. Tu Th 9:10-10:25. Section V. Professor Hutchings. Tu Th 1:10-2:25.

1y. Introduction to Psychology.

Same as Course 1x. Section I. Instructor to be announced. Tu Th 9:10-10:25. Section IIa. Instructor to be announced. M W 1:10-2:25. Section IIb. Instructor to be announced. M W 1:10-2:25. Section III. Professor Hutchings. Tu Th 1:10-2:25.

LOWER LEVEL COURSES

5. Psychology of Learning.

The basic methods, results and theory in the experimental analysis of behavior. Emphasis is placed upon operant and classical conditioning, and the application of these procedures to the analysis of behavior in a variety of species, including humans. The laboratory consists primarily of experiments using rats as subjects. Prerequisite: Course 1. Professor Balsam and assistants. Lec. Tu Th 11. One hour Reading Evaluation to be arranged. Lab. (3 hours) Tu or W 1:10-4.

8. Perception.

An introduction to the problems, methods, and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or permission of the instructor. Professor Perera and assistants. Lec. M W 11-12:15. Lab. M or Th 1:10-4.

9x or 9y. Statistics.

An introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and the most common statistics will be covered. The recitation will be devoted to discussion of weekly problem assignments. Prerequisite: Course 1 or permission of the instructor. Professor Kelling and assistant. Lec. M W F 11. Recitation. Tu or W 1:10-3.

10. Perception.

The same as 8, but without laboratory.

17y. Physiological Psychology.

A brief introduction to the phylogeny and ontogeny of behavior, neuroanatomy and neurophysiology, followed by a discussion of the neural basis of sensory processes, motor behavior, hunger, thirst, sexual behavior, sleep and arousal, learning and memory. Prerequisite: Course 1. Professor Silver and assistants. Lec. M W 1:10-2:25. Lab. W 2:30-5:30.

19y. Physiological Psychology.

The same as 17, but without laboratory.

25. Psychology of Personality.

A survey of the area; intensive readings of some major theorists; research utilizing personality variables. Special attention is given to the implicit and explicit personality theories of various types of people and to the articulation of the dialectic between explanations as a function of personality and explanations as a function of situational determinants. Prerequisite: Course 1 or permission of the instructor. Professor Kelling. M W F 9.

27x or 27y. Developmental Psychology.

An overview of cognitive, linguistic, perceptual, motor, social, and personality development from infancy to adolescence. The laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. Prerequisite: Course 1 or permission of the instructor. Professors Braine (Autumn) and Schachter (Spring) and assistants. Lec. M W 1:10-2:25. Lab. M 2:30-5:30 or Tu 2:10-5.

29x or 29y. Developmental Psychology.

The same as 27, but without laboratory.

30. Human Learning and Memory.

Survey of contemporary experimental approaches to the understanding of human learning and memory. Topics considered include a historical overview, the acquisition of information, theories of forgetting, transfer of learning, and models of semantic memory. The laboratory will consist of experiments and demonstrations related to the above topics. Prerequisite: Course 1 or permission of the instructor. Professor Raye and assistant. Lec. M W F 11. Lab. W 1:10-4.

32. Human Learning and Memory.

The same as 30 but without laboratory.

34x. Educational Psychology.

Through a participative classroom model the major theories and issues in human psychological development and learning fundamental to the educative process are examined. The course studies the implications and applications of underlying psychological and educational assumptions in elementary and secondary classrooms. Prerequisite: Course 1 or permission of the instructor. Professor Sacks and assistant. Tu Th 10:35-11:50.

38. Social Psychology.

An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1 or permission of the instructor. Instructor to be announced. Tu Th 9:10-10:25.

MIDDLE LEVEL COURSES

41x or 41y. Abnormal Psychology. (formerly 21)

Theories and explanations of behavior termed neurotic and psychotic, with research bearing on their adequacy and validity; research on characteristics of persons who have been placed in the various diagnostic categories; theories of therapy, with research bearing on the outcome of therapy. Open to juniors and seniors who have had Course 1. Professor Schachter (Autumn). Tu Th 9:10-10:25. Professor Kelling (Spring). M W F 9.

42. Child-Rearing: A Survey of Alternative Practices.

Theories, methods, and implications of child-rearing practices examined through studies of parent-child relationships, varied family structures, and the influence of temperament, gender, birth order, and values. Prerequisite: Course 1 or permission of the instructor. Limited to 30 students. Professor Sacks. Tu Th 10:35-11:50.

48. Research Methods in Social Psychology.

Students will become familiar with a variety of research methods in social psychology by carrying out laboratory and field studies on selected topics. Class projects involve the use of self-report measures, observational measures, and experimental manipulation; an individual research project is required. Limited to 25 students. Prerequisite: social psychology, taken previously or concurrently. Instructor to be announced. Lec. and Lab. Tu Th 3:10-5.

49. Teaching Apprentice Seminar (Learning).

An intensive analysis of the principles of learning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate in the seminar superior comprehension of the subject matter. Individual work with Course 5 students. Prerequisite: Course 5 and permission of the instructor. Professor Balsam. M 2:10-4.

[50. Teaching Apprentice Seminar (Introductory). Not given in 1979-80.]

54x. Hormones and Reproductive Behavior. (formerly 18)

The biological basis of parental and sexual behavior from a comparative perspective. The complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior will be examined. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are **not** prerequisites. Prerequisite: Course 1. Professor Silver. M W 2:40-3:55.

56. Psychological Measurement. (formerly 12)

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and permission of the instructor. Instructor to be announced. Lec. M W F 10. Lab. Th 1:10-4.

UPPER LEVEL COURSES

60x. Cognitive Psychology. (formerly 40)

Lectures and discussions will focus on selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Consideration will also be given to historical antecedents of current questions and research techniques. Topics covered will include: perception, episodic and semantic memory, psycholinguistics, and problem solving. Prerequisite: Course 1 or permission of the instructor. Professor Raye. M W 1:10-2:25.

[62. Psychoanalysis from Freud to Laing. (formerly 44). Not given in 1979-80.]

63. Field Work in Psychological Services.

Supervised field work applying psychological principles in clinical, educational, medical, and other institutional settings. Seminar meetings involve discussion of different theoretical approaches to clinical problems and presentation of case materials. Limited to 12 advanced majors. Permission of the instructor required. Prerequisite: at least two of the following: Psychology 25, 27, 34, 41, 56. Professor Stingle. Tu 10:30-12, plus supervision to be arranged.

65-66. Projects in Child Development. (formerly 45-46)

The Barnard Center for Toddler Development provides the focus for this practicum and research seminar in developmental psychology. Students assist one morning a week at the Center, carry out individual research projects, and participate in the ongoing research. There is a 2-hour weekly seminar. A few additional students will do only the research projects. Number of students limited. Prerequisite: Course 27 and permission of the instructor. Professor Schachter. Tu 12-2.

[67. History and Systems of Psychology. Not given in 1979-80.]

[68x or 68y. Case Histories in the Design of Experiments.

Professor Youtz. Not given in 1979-80. The course material may be studied as an individual project with Professor Youtz.]

SEMINARS

70x. Special Topics.

I. Psychological Analysis of Racism.

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Emphasis on psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. Limited to 20 students. Prerequisite: Course 1 and permission of the instructor. Instructor to be announced. W 4:10-6.

71. Psychology and Women.

Selected topics relevant to the scientific understanding of women's behavior and experience: sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of menstruation, childbirth, menopause; women and therapy; the sociology of psychology as it affects women. Limited to 20 students. Prerequisites: Course 1 and two other courses in psychology, or permission of the instructor. Instructor to be announced. Tu 2:10-4.

[72. Topics in Developmental Psychology. Not given in 1979-80.]

[74. Theories of Learning. (formerly 16). Not given in 1979-80.]

[W4107y. Applications of Experimental Psychology. Not given in 1979-80.]

91-92. Senior Research Seminar.

Discussion and conferences on a research project culminating in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor. Prerequisites: Psychology 9, a minimum of five other psychology courses completed, and permission of the instructor. Restricted to senior majors. Instructor to be announced. F 2:10-4.

99x, 99y. Individual Projects.

Research projects will be planned in consultation with members of the department. Open to majors on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.



Religion

Professors

Theodor H. Gaster,¹ Elaine H. Pagels (Chairman; 219C Milbank Hall)

Assistant Professors

Joel Brereton,² Marilyn Harran, Daniel Snell

Other officers of the University offering courses listed below:

Professors

Gillian Lindt, J. A. Martin, Jr., Morton Smith, Robert Somerville,² Alex Wayman

Visiting Professor

Arthur Hyman (Philosophy)

Associate Professor

Wayne L. Proudfoot²

Assistant Professors

Peter Awn, Arnold Eisen, Frederic Underwood, Paul Valliere

¹Emeritus

²Absent on leave, 1979-80.

The purpose of the program is (a) to introduce the field of religion in general; (b) to present the thought, documents, and history of the major religious systems of the East and West; and (c) to give students an insight into the distinctive approach of each towards the analysis of the human condition and the solution of its problems. The courses are designed not only for those who may wish to specialize in religion, but also as a cross-fertilization of general studies in the humanities, e.g. in history, literature and philosophy.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. Ten semester courses are required, with the exact distribution to be determined by each student in consultation with departmental advisers. Majors will be encouraged to take one or two introductory courses, a variety of courses in Eastern and Western religions and in the theory and function of religion. All will be required to take two seminars and to write a senior essay. Majors will also be expected to organize their programs to assure them of some direct experience and understanding of the disciplines involved in the study of religion, such as anthropology, sociology, psychology, literary analysis, philosophy, or history.

Students of religion usually fall into two groups, (1) those who pursue their study as a way of opening to themselves a large part of the liberal arts curriculum; touching many disciplines and methodologies of learning, and (2) those who have found special areas of interest and look forward to doing graduate work in religion. For both groups, a reading knowledge of such languages as Greek, Latin, Hebrew, Arabic, Chinese, or Sanskrit will be useful; for the second group, it is strongly recommended.

INTRODUCTORY COURSES

V1101x, V1102y or V1102x, V1101y. Introduction to the Study of Religion.

The phenomenology of religious experience and the historical terms of religious life. A study of the pre-suppositions, data, and documents of the religions of East and West. V1101: religions of the West. V1102: religions of the East. Students may begin their study of religion with either course. V1101x. Section I. Professor Pagels. M W F 11. Section II. Professor Harran. Tu Th 10:35-11:50. Section III. Professor Valliere. Tu Th 9:10-10:25. V1101y. Professor Snell. M W F 11. V1102x. Professor Underwood. M W 6:10-7:25. V1102y. Instructor to be announced. M W F 10.

V1001x or y. Major Topics in the Study of Religion.

Introduction to the theory and practice of religion, East and West, e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. V1001x. Professor Awn. M W 11-12:15. V1001y. Professor Martin. Tu Th 10:35-11:50.

WESTERN RELIGIONS

Bible

V3201x. Introduction to the Old Testament.

An introduction by critical methods to the literature of ancient Israel against the background of the ancient Near East. Professor Snell. M W F 11.

V3202y. Introduction to the New Testament.

An introduction, by critical methods, to the religious history of the Christian movement in the New Testament period. Professor Pagels. M W F 11.

Ancient Religions

G4321y. Ancient Near Eastern Religions.

A comprehensive study of the religious ideas, practices, institutions, and writings of the Egyptians, Mesopotamians, Hittites, Canaanites, and Israelites. The texts are read in translation. **Open to religion majors.** Professor Snell. Tu 4:10-6.

[Class. Civ. V3160y. Roman Religion. Not given in 1979-80.]

Judaism

[V3301x. Religion and Society in Ancient Israel and the Post-Exilic Community. Not given in 1979-80.]

V3215x. Biblical and Ancient Near Eastern Law.

Biblical law codes as reflections of social and religious values and their relation to legal practice compared to legal codes and practice in neighboring cultures from the earliest times to 500 B.C.E. Professor Snell. M W 1:10-2:25.

[History W4508y. History of the Israelites to Alexander. Not given in 1979-80.]

V3302y. Religion and Society in the Period of the Mishnah and Talmud.

A critical survey of Jewish beliefs, practices, and institutions in late antiquity and the early medieval period. Primary sources read in original or in translation. Professor Snell. M W 1:10-2:25.

V3303x. Judaism in the European Middle Ages and the Renaissance.

The adoption of Jewish religion to the European environment from the tenth to the seventeenth century. Modifications of rabbinic law; religious practice; liturgy and holy days; philosophic and mystical interpretations; messianic movements, emergence of the Hasidic movement. Instructor and time to be announced.

W4304y. Judaism in the Modern Western World.

Judaism from the 18th century to the present in Europe, America, and Israel. Religious responses to emancipation in Western Europe: Reform and Neo-Orthodoxy, Jewish *enlightenment* and its religious aspects and consequences; the advance of Jewish secularism, especially in Eastern Europe; from cosmopolitanism to nationalism in Jewish religious thought; Zionism, from absurd idea to accomplished reality; Jewish peoplehood and the Conservative movement in America; Modern Orthodoxy and its institutions; religion in Israel; an old faith in a new state. Professor Eisen. Tu Th 10:35-11:50.

History W3575x-W3576y. Israelite and Christian Historiography.

Autumn: Historical writing and the notion of history in the Old Testament and apocrypha. Spring: Josephus and Christian historiography to Eusebius. Prerequisites: History W1005 and W1006 or their equivalents. Professor Smith. Tu 3:30-5:20.

Rabbinic Literature

[V3320x. Introduction to Early Rabbinic Literature. Not given in 1979-80.]

Religion

[W4310y. **Talmudic and Geonic Literature.** Not given in 1979-80.]

Judaism/Christianity. Comparative Study.

[V3325y. **Religious Controversies: Christianity and Judaism.** Not given in 1979-80.]

History of Christianity,

[V3402y. **Early Christianity: From Paganism to Christianity.** Professor Pagels. Not given in 1979-80.]

V3404y. Eastern Christianity.

The history of Eastern Christianity from the time of Constantine and the Greek and Oriental Fathers of the fourth century to early modern times: institutions, mystical theology, monasticism, religious art. Considerable attention to Russia. Professor Valliere. Tu Th 9:10-10:25.

[V3405. **Medieval Ecclesiastical History: 300-900.** Not given in 1979-80.]

[V3406x. **Medieval Ecclesiastical History, 900-1400.** Not given in 1979-80.]

V3407y. Mysticism.

Investigations of selected mystical writings including Meister Eckhart, Theresa of Avila, and Francis of Assisi, to consider how these interpret their own religious experience. Contemporary psychological, philosophical, and phenomenological views of mystical experience. Professor Harran. Tu Th 2:40-3:55.

[V3409y. **Luther and the Radical Reformation: Piety and Politics.** Professor Harran. Not given in 1979-80.]

[V3410x. **History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.** Professor Pagels. Not given in 1979-80.]

V3500x. Studies in Religion and Culture: Sixteenth and Seventeenth Centuries.

See listing under *Modern Religious Thought*.

[G6346y. **Early Eastern Christianity.** Not given in 1979-80.]

V3408y. Catholic Theology since Vatican II.

Development of Catholic theology after Vatican II, examined in its historical context. Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, liberation theology. Examination of the Church and the world, infallibility, theological method, political theology, hope and the future. Christian ecumenism and world religions. Professor Cousins. Tu Th 6:10-7:25.

Islam

V3630x. Islamic Religion.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods and their continued evolution in a variety of cultural settings. Professor Awn. Tu Th 1:10-2:25.

V3635y. History of Sufism.

The history of the Islamic mystical tradition from its origins in the eighth century, through its classical and institutional phases in the twelfth century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world. Professor Awn. Tu Th 11-12:15.

Modern Religious Thought

[V3500x. **Studies in Religion and Culture: Sixteenth and Seventeenth Centuries.** Professor Harran. Not given in 1979-80.]

[V3501x. **Studies in Religion and Culture: Eighteenth and Nineteenth Centuries.** Not given in 1979-80.]

V3503y. History of Religion in America.

Religious thought and institutions from colonial times to the present; influence on American political and social history through the work of representative individuals. Professor Lindt. Tu Th 6:10-7:25.

[V3505x. **Contemporary Religious Thinkers.** Not given in 1979-80.]

[W4312x. **Modern Philosophies of Judaism.** Not given in 1979-80.]

[V3513y. **Philosophy of Religion.** Not given in 1979-80.]

EASTERN RELIGIONS

V3600y. History of Hinduism.

Origin and development of central themes of traditional Hinduism. Emphasis on basic religious literature and its relation to Indian culture. Readings include original sources in translation. Instructor and time to be announced.

Middle East W3010x. History of Astrology in the Ancient and Classical World.

The role of astrology in the development of astronomy; calendar systems of the ancient Orient; origin of the zodiac division; deification of the planets and stellar myth; influence of astrology in Egypt, Babylon, China, Greece, Rome, Iran, and India. Professor Wayman. Tu Th 2:40-3:55.

[V3602y. **Classical Texts in Eastern Religion.** Professor Brereton. Not given in 1979-80.]

V3607x. History of Indian Buddhism.

A chronological and phenomenological survey of the development of Buddhism in India from Gautama and the original Buddhism to Hinayana sectarianism, Mahayana, and Vajrayana. Institutions, sects, cults, meditation and spirituality, philosophy. Professor Underwood. M W 2:40-3:55.

V3608y. Buddhism of Tibet, China and Japan.

An historical and phenomenological study of Buddhism in the Far East. Confrontation with indigenous traditions and cultural assimilation. Sects and schools. Institutions. Buddhism and the state. Philosophy. New forms of spirituality and redefinition of the "Holy Man." Professor Underwood. M W 2:40-3:55.

[Indic-Religion W3121y. **Ascetic and Meditational Cults of Traditional India.** Not given in 1979-80.]

V3611y. Chinese Religious Thought.

- A study of both native religions and philosophical movements and Buddhist developments in China. Professor Underwood. Tu Th 10:35-11:50.

[V3613x. **Japanese Religious Thought.** Not given in 1979-80.]

[W4607y. **Contemporary Asian Spirituality.** Not given in 1979-80.]

[W4608y. **Comparative Yoga.** Not given in 1979-80.]

RELIGION, CULTURE, AND SOCIETY

[V3700y. **Women and Religion.** Not given in 1979-80.]

[V3702y. **Religious Ethics: War and Peace in Jewish and Christian Thought.** Not given in 1979-80.]

V3720x. Sociology of Religion.

An introduction to the field; its classic texts, its major areas of research, its methodological tools and dilemmas, and its relationship both to other sub-disciplines of sociology and to other approaches to religion. Emphasis shall be placed on the interplay between theoretical works and ongoing empirical research. Professor Eisen. Tu Th 10:35-11:50.

[V3708x. **Communes Past and Present: the Pursuit of Utopia.** Not given in 1979-80.]

[V3730x. **Religious Conversion.** Professor Harran. Not given in 1979-80.]

Religion

V3710x. The World of Folklore and Magic.

Comparative investigation of folklore and folkcustom, emphasis on European and American, with reference to Asian, African, and other sources, ancient and modern. Topics include: the life cycle (birth, betrothal, marriage, divorce, death); magic, healing, and superstition; folktale, drama, folksong, folklore today. Professor Gaster. Th 4:10-6, plus hour to be arranged.

V3725y. The World of Myth.

The nature of myth; investigation of representative myths, both Eastern and Western. The science of mythology; myth today. Professor Gaster. Th 4:10-6, plus hour to be arranged.

[V3715. Religion in Contemporary Society. Not given in 1979-80.]

[V3717. Religion in Contemporary Culture. Not given in 1979-80.]

Religion-Sociology G4700y. Sociology of Religion: Concepts and Methods.

Introduction to the concepts, methods, and theories of the sociological study of religion. Professor Lindt. Tu 9-10:50.

[Religion-Sociology G4701x. Sociology of Religion: Comparative Institutions. Not given in 1979-80.]

[G4710x. Women's Spiritual Quest. Not given in 1979-80.]

[W4705x. Social Theory and Religion: the Classics. Not given in 1979-80.]

Anthropology V3042x. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Instructor to be announced. M W F 10.

G4708x. Social Theory and Religion: Contemporary Studies.

A critical examination of selected contemporary sociological, psychological, and anthropological theories of man, religion, and society. Works considered will include those of Parsons, Bellah, Berger, Luckmann, Geertz, Swanson, Lévi-Strauss, Fromm, and Erikson. Professor Lindt. Tu 9-10:50.

SEMINARS

Students who are not religion majors must obtain permission of the instructor.

V3800x. Majors' Colloquium.

Critical discussion of works on the theory of religion. Recommended for all senior majors. Professor Valliere. W 4:10-6.

V3803x, V3804y. Seminars in Religious Thought.

V3803x. I. Religious Conversion in the West.

Discussion of conversion experiences of such figures in the Christian tradition as Paul, Augustine, Francis of Assisi, Martin Luther, and Jonathan Edwards. Professor Harran. W 2:10-4.

II. Martin Buber and His Critics.

A comprehensive reading of Buber's work in all its variety, along with the critical literature on that work. Professor Eisen. W 11-12:50.

V3804y. I. Religious Responses to Suffering and Death.

An investigation of various religious attempts to address questions posed by suffering and death. Considerations of the theological understanding of the relation between suffering and sin, the question of whether there is value in suffering, and the problem of what human suffering implies about the nature of God. Works by Kierkegaard, Wiesel, Rahner, Soelle, Old and New Testament selections. Professor Harran. Tu 2:10-4.

[Psychology-Religion V3900x. Seminar in the Psychology of Religion. Not given in 1979-80.]

V3901x, V3902y. Guided Reading and Research.

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. Members of the Department.

Professors

Richard F. Gustafson (Chairman; 226B Milbank Hall), Marina Ledkovsky

Associates

Anatol K. Sapronow, Marianna Sapronow, Zoya Trifunovich

Other officers of the University offering courses listed below:

Professors

Robert Belknap, William Harkins, Robert Maguire

Associate Professor

John Malmstad

Associate

Irene Balaksha

The Russian Department offers courses in the language, literature, and culture of Russia. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature and philosophy. Students should consult the department chairman in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature and culture taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts, and a comprehensive knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The prerequisites to the major, in most cases to be completed before the junior year, are Russian V1202y (or its equivalent), V1220x, and V1221y. The minimum for the major is 8 courses. No courses with readings exclusively in English may be included in the minimal major program. Majors are required to take Russian V3333x, V3334y, two fourth-year language courses, and the Senior Seminar, V3595x. For further information, consult the departmental chairman.

The minor in Russian is designed for the particular needs and interests of the student. The prerequisite to the minor is Russian V1202y (or its equivalent). The minimum for the minor is 5 courses, all chosen in consultation with the departmental chairman.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V1202y or any course beyond that level.

LANGUAGE COURSES

V1101x-V1102y. Elementary Course.

Grammar, reading, composition. Oral practice in small groups. Section I. Instructor to be announced. M W F 10. Section II. Professor Gustafson. M W F 12. Section III. Mrs. Balaksha. M W F 1:10. Oral Practice: Mr. and Mrs. Sapronow and staff. Section I. M W F 9. Section II. M W F 11. Section III. M W F 1:10. Section IV. M W F 2:10. Section V. Tu Th F 10.

V1201x-V1202y. Intermediate Course.

Reading, composition, grammar review. Oral practice in small groups. Language laboratory work required. Prerequisite: Course V1102y or the equivalent. Section I. Mrs. Trifunovich. M W F 9. Section II.

Russian

Mrs. Balaksha. M W F 10. Section III. Mrs. Balaksha. M W F 12. Oral Practice: Mr. and Mrs. Saprnow and staff. Section I. M W 10. Section II. M W 11. Section III. Tu Th 9. Section IV. Tu Th 10. Section V. Tu Th 11. Section VI. Tu Th 12.

V3331x, V3332y. Advanced Course.

Emphasis on conversation and composition. Reading and discussion of selected twentieth-century texts. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 1:10. Oral practice: Mrs. Saprnow. Section I. M W 12. Section II. M W 3:10.

V3441x, V3442y. Russian Conversation and Composition.

Selected twentieth-century texts including fiction and non-fiction provide a context for discussion of contemporary issues. Lectures, reports, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Professor Ledkovsky. M W F 12.

V3443x, V3444y. Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises; translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 10.

LITERATURE COURSES

V3333x, V3334y. Introduction to Russian Literature.

Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B- or better in Course V1202y or permission of the instructor. Professor Malmstad. M W F 10. Oral practice: Mr. Saprnow. Section I. M W 2:10. Section II. Tu Th 1:10. Section III. Tu Th 2:10.

V3461x. Pushkin.

A close study, in the original, of Pushkin's narrative, dramatic, and lyrical verse. Conducted mainly in Russian. Examinations in English. Prerequisite: three years of Russian or permission of the instructor. Professor Ledkovsky. M W F 11.

V3462y. Gogol.

A close study, in the original, of the major works. Prerequisite: three years of Russian or permission of the instructor. Professor Malmstad. W F 1:10-2:25.

[V3463x. Tolstoy. Professor Ledkovsky. Not given in 1979-80.]

[V3464y. Dostoevsky. Professor Gustafson. Not given in 1979-80.]

[V3465y. Russian Poetry in the Nineteenth and Twentieth Centuries. Professor Ledkovsky. Not given in 1979-80.]

[V3467x. Twentieth-Century Prose Writers. Professor Maguire. Not given in 1979-80.]

V3595x. Seminar.

Supervised individual research on some aspect of the seminar topic with class reports culminating in a critical paper. Topic: the growth of Russian national self-awareness. Professor Ledkovsky. W 2:10-4.

V3596y. Individual Research.

Supervised individual research culminating in a critical paper. Members of the staff. Hours to be arranged.

English-French-Russian V3420y. European Prose: 1855-1869.

An intensive course devoted primarily to the prose fiction of England, France, and Russia from 1855 to 1869. Each day-long session will be composed of one lecture, small discussion groups, and luncheon with an outside speaker. Afternoon study groups will be in French for French majors and partly in Russian for Russian majors. (For additional details see listing on page 83.) The course will count as one course toward the Russian major, and as three courses toward the degree. Permission of Professor Belknap or Professor Robertson required. Professors Belknap, Rengstorf, and Robertson. Tu Th 9:30-4.

RUSSIAN LITERATURE IN TRANSLATION

V1220x. Nineteenth-Century Russian Prose.

The development of prose forms from Sentimentalism to Impressionism, with special attention to Gogol, Turgenev, and Chekhov. Tolstoy and Dostoevsky are not included. A knowledge of Russian is not required. Professor Gustafson. M W F 11.

V1221y. Twentieth-Century Russian Prose.

The course of Russian prose fiction from symbolism to the present. Special attention to Bely's *Petersburg*, Sologub's *Petty Demon*, Babel's *Red Cavalry*, Olesha's *Envy*, and representative major works by Bunin, Pasternak, and Nabokov. Some emphasis on recent "dissident" writers such as Solzhenitsyn. A knowledge of Russian is not required. Professor Maguire. M W F 11.

V1222x. Tolstoy and Dostoevsky.

Analysis of the major works of the two writers. A knowledge of Russian is not required. Professor Belknap. Tu Th 10:35-11:50.

[V1223x. Modern Slavic Drama in Translation. Not given in 1979-80.]

[V1224y. Introduction to Russian Culture. Professor Harkins. Not given in 1979-80.]

[V1229x. Russian Drama and Theater. Not given in 1979-80.]

[G4006y. Nineteenth and Twentieth Century Thought. Professor Gustafson. Not given in 1979-80.]



Professors

Bernard Barber,¹ Mirra Komarovsky²

Assistant Professors

James C. Wendt, Viviana Zelizer (Acting Chairman; 410D Milbank Hall)

Lecturers

Jean Bandler, Nathalie Friedman, Theresa Rogers

Other officers of the University offering courses listed below:

Professors

Allen Barton, Peter Blau, Jonathan Cole, Allan Silver, Harriet Zuckerman

Assistant Professors

Mark Baldassare, Andrew Beveridge, Wesley Fisher, Steve Messner, Joseph Schwartz, James Thompson

¹Absent on leave, 1979-80.

²Emeritus

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 (preferably in the freshman year); V3100y, V3211x, and V3212y (no later than fall of the junior year); 87-88 (in the senior year); and other courses selected in consultation with the major adviser. A minimum of 8 courses is required.

There is no major examination. To graduate a student must complete, to the satisfaction of her instructor in Soc. 87-88 a long paper involving some form of sociological research and analysis.

1, 2. Introduction to Sociology.

An introduction to sociological analysis with comparative materials from contemporary American and other societies. Autumn Term: Alternative models of sociological analysis. Major structures of society: kinship, socialization, stratification, formal and informal organization. Spring Term: Major structures of society continued: polity, economy, religion. Selected problems of social deviance and social control. Race and ethnic relations. Problems of social change. These courses must be taken in sequence, but not necessarily in the same year. Professor Zelizer. M W 2:40-3:55.

22. Introduction to Social Work.

Introduces students to the structure and function of social welfare in the U.S., and to the profession of social work as well as to the several fields and domains in which it works. Students' knowledge of the various social and behavioral sciences is related to the material covered and to current events and developments. Open to juniors and seniors. Dr. Bandler. M W 1:10-2:25.

V3100y. Introduction to Social Theory.

An introduction to theories used in the study of complex societies and social change, including those of Marx, Durkheim, Weber, but stressing contemporary functional, conflict, interaction, and exchange theories. Professor Fisher. Tu Th 2:40-3:55.

V1206x. Equality and Inequality in Western Societies.

A systematic theoretical and empirical analysis of problems of inequality, justice, and discrimination in Western societies. The influence of ascribed statuses on the life-chances of individuals; the fairness of social institutions in rewarding talent. Discussion of the relevant historical, sociological, and philosophical literature. Central themes in stratification theory, from nineteenth century biologicistic views through Marxian formulations to contemporary functional analysis, will be treated. Professor Messner. Tu Th 2:40-3:55.

V3211x. Methods of Social Research, I.

Theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluation claims to knowledge of social phenomena. The problem with common sense explanations. Concepts of causality in the social and physical sciences. The nature of evidence and inference. The conduct of inquiry; conceptualization and the formulation of hypotheses; observational procedures and problems of causal inference; analysis of quantitative and qualitative data. Professor Messner. Tu Th 10:35-11:50.

V3212y. Methods of Social Research, II.

Introduction to elementary data analysis. Definition and measurement of variables; testing hypotheses; interpretation of findings. Students will use the computer to perform a simple analysis of a data set. Professor Thompson. M W 2:40-3:55.

V3209y. Social Class and Social Mobility.

Consideration of the meaning of social class and social mobility in different cultural and institutional contexts. The impact of economic institutions on stratification and mobility. Historical forces which have shaped the present situation in Western Europe, America, and the socialist states. Class structure and mobility in future societies. Professor Thompson. M W 11-12:15.

V3215y. American Society and Politics.

The relationship among American values, social structure, and political activity. Specific problems include poverty, racism, the social and political implications of a mature capitalist economy, the position of women, the absence of socialist beliefs in the working class, and alternative "integrative" and "conflict-oriented" strategies of social change. Professor Barton. Tu Th 4:10-5:25

[V3217y. Social Control. Professor Martin. Not given in 1979-80.]

V3225x. Sociology of Education.

The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Dr. Friedman. Tu Th 2:40-3:55.

V3228y. Sociology of Medicine.

An analysis of illness and its management in contemporary societies. Topics include: social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; the social organization of the medical professions and of the hospital; and problems and prospects of health delivery systems. Dr. Rogers. M W 2:10-3:25.

V3265x. Minorities in American Life.

Comparative analysis of racial and ethnic communities in urban and rural areas of the United States, with emphasis on group identity and culture, and intergroup conflict and accommodation. Students will be required to prepare a research paper which applies theories and relevant empirical techniques to the study of a particular ethnic or racial community. Professor Schwartz. Tu Th 2:40-3:55.

V3303x. Female and Male: A Sociological Perspective.

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity. Stresses in female-male relationships at various stages of the life cycle and in the family,

occupational world, and other institutional settings. Class and race differences in social roles of the sexes. Social policies leading to the alleviation of current problems. Limited to 35 students. Sign-up sheet, 317 Milbank Hall. Professor Komarovskiy. M W 12:30-1:45.

W3324x. Urban Sociology.

Theories and empirical analyses of urban social structures and social processes in industrialized and agrarian regions. Students will be encouraged to apply course materials to studies of urban life and culture in New York City. Professor Baldassare. Tu Th 1:10-2:25.

V3326y. Personality, Culture, and Social Structure.

Recent developments in theory and method. Social uses of concepts of motivation and personality and their consequences for social order, interaction, and institutions. Cross-cultural and historical studies, with emphasis on America. Instructor to be announced. Hours to be arranged.

W3443x. Sociology of Business and Economic Life.

Advanced technology and modern industrial organization as they affect social structure and quality of life in both wealthier and third world societies: Impact on other social features of business and trade; private ownership and public control; patterns of consumption and income; concentration and transmission of wealth. Materials drawn from sociological, economic, anthropological, and historical sources. Implications for a current social issue as expressed in the literature of social criticism. Professor Beveridge. M W 4:10-5:25.

W4034x. Sociology of Science.

Science as a social and cognitive system. Growth of scientific knowledge. Conflict among scientists. The hierarchy of the sciences: truth or fiction? Problems of deviance, resistance, inequality, discrimination, and justice in science. The concept of genius. Science and social policy. Professor Zuckerman. Th 2:10-4.

W3620x. The Sociology of Law and Legal Systems.

Detailed examination of the social forces and traditions that help shape the law. The historical and current uses and abuses of social science evidence and methods in legal cases. Emphasis on landmark constitutional decisions, particularly those dealing with sex-based and race-based discrimination. Examination of related developments under statutory schemes such as Title VII of the 1964 Civil Rights Act. Comparisons of the logic of proof and the problems of inference in the social sciences and the law. Theoretical issues of equity, fairness, deterrence linked to empirical evidence. Readings include legal cases and materials as well as social science studies. Professor Cole. Tu Th 10:35-11:50.

V3555y. Sociology of Family Institutions.

Cross-national and historical perspectives on the nature of family systems. Family in relation to other institutions, in particular economic, political and class systems. The family and social change. Professor Fisher. Tu Th 10:35-11:50.

[W3220x. Bureaucracy and Its Alternatives: Improving Outcomes in an Organizational Society. Professor Winckler. Not given in 1979-80.]

[W3664x. Comparative Political Sociology. Professor Winckler. Not given in 1979-80.]

W3666y. Political Sociology.

Basic theoretical and empirical approaches to the sociological study of Western politics. Seminar writers of the 19th century and recent interpretations of the social foundations of politics. Ideology and opinion; social bases of regimes; class politics; mass participation and voting; movements and revolution; state and society. Professor Silver. Tu Th 2:40-3:55.

V3670y. Sociology of Work and Occupation.

An examination of the occupational structure of Western societies. Problems of mobility, alienation, reward, and occupational satisfaction are systematically treated through reference to theoretical and empirical works. Attention given to worker alienation in contemporary American society. Professor Wendt. Tu Th 1:10-2:25.

V3994x-V3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, each year a different topic is chosen for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. During 1979-1980 students will study inner city revitalization in New York. Permission of the instructor required. Registration limited to 10 to 15 seniors and juniors. Professor Baldassare. Th 4:10-6.

W4010x. The Structure of Soviet Society.

Marxist and non-Marxist theories of Soviet society. Class structure and stratification, the position of nationalities and religious groups, work and leisure, family systems, social controls and the propagation of social values, alienation and authenticity. The social psychology of the individual citizen. Professor Fisher. Th 2:10-4.

87-88. Individual Projects for Seniors.

The instructor will supervise the writing of long papers involving some form of sociological research and analysis. Professor Zelizer. W 4:10-6.



Spanish

Professors

Mirella Servodidio,¹ Margarita Ucelay²

Associate Professors

Marcelo Coddou, Marcia Welles (Chairman; 209 Milbank Hall)

Assistant Professors

Helene Farber deAguiar, James Crapotta, Enrique Giordano

Associate

Vilma Bornemann

Instructors

Perla Rozencvaig, Flora Schiminovich

Other officers of the University offering courses listed below:

Professor

Karl-Ludwig Selig

¹Absent on leave, Spring Term.

²Absent on leave, Autumn Term.

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language and to develop an understanding of the cultural and literary traditions of Spain and the Hispanic Republics.

A student majoring in Spanish will be required to take Courses 13, 15, 17, 18, 20, 23, 25, 26, 31, 32.

Other fields: The following courses are recommended:

Anthropology V3029; Classical Literature 32, V3123; Art History 75, 76; French 21-22; German 55-56; History W4779x-W4780y. Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

A student minoring in Spanish will be required to take Courses 20, 31, 32 and three more to be chosen from 17, 18, 23y, 25 and 26.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency tests taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4 with the exception of students of Spanish-American background who must fulfill the requirement with Spanish 6x instead of Spanish 4. Transfer students should consult the department.

LANGUAGE COURSES

V1101x-V1102y. Elementary Full-Year Course.

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work. Members of the Department. Section 1a. M Tu W Th F 9. Section 1b. M Tu W Th F 9. Section IIa. M Tu W Th F 10. Section IIb. M Tu W Th F 10. Section IIc. M Tu W Th F 10. Section IId. M Tu W Th F 10. Section IIIa. M Tu W Th F 11. Section IIIb. M Tu W Th F 11. Section IVa. M Tu W Th F 12.

2x. Intensive Review of Elementary Spanish.

A course for incoming students whose score on the placement test puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some

speaking knowledge of Spanish but insufficient formal training or grammatical foundation. Laboratory work. Members of the Department. Section 1a. M Tu W Th 1:10. Section 1b. M Tu W Th 1:10.

3,4. Intermediate Course.

A rapid review of grammar and syntax; oral practice. Discussion and analysis of important works in Spanish and Spanish-American literatures. Work in the language laboratory. Members of the Department. Section I. M W F 10. Section II. M W F 11. Section III. M W F 12. Section IV. M W F 1:10.

3y. Intermediate Course, Part I.

Equivalent to Course 3, but given in the Spring Term. Members of the Department. Section I. M W F 9. Section II. M W F 1:10.

4x. Intermediate Course, Part II.

Equivalent to Course 4, but given in the Autumn Term. Members of the Department. Section Ia. M W F 11. Section Ib. M W F 11.

6x. Problems of Spanish Grammar.

A study of morphology, structure, and syntax as a point of departure for questions related to New York City Spanish: i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why. Recommended to students in Education, Linguistics, Urban Studies. Must be used to fulfill the foreign language requirement by students of Spanish-American background. Professor Giordano. M W F 1:10.

9,10. Advanced Oral Spanish.

A study of spoken Spanish, of differences of pronunciation in Spain and America. Conversation, oral drills, and field work. Not intended for students of Spanish-American background. Permission of the instructor required. Ms. Rozencvaig, Ms. Schiminovich, and Professor Giordano. M Tu W Th 1.

[French-Spanish 90. Problems in the Teaching of French and Spanish. Not given in 1979-80.]

LITERATURE COURSES

For non-majors, the literature courses listed in this section (except 13 and 15, 16) will count toward the general requirement. All Barnard courses are conducted entirely in Spanish except Course 40 and 41.

5. Literary Analysis of Contemporary Authors.

Studies in depth of major 20th century works. Techniques of literary analysis as they apply to different genres. Theories of criticism. Critical evaluation of style, structure, and content. Prerequisite: Course 4 or 4x. Professor Servodidio. M W 1:10-2:25.

11. Significant Themes of Contemporary Latin American and Spanish Literature.

Analysis and discussion of selected works of contemporary interest. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Spanish 11 may be elected more than once for course credit providing sections vary.

I. The Latin American Abroad: Identity and Image.

Fiction based on life in a foreign world. The course will begin with José Martí's essays on residence in New York, and will center on twentieth-century writers concerned with the Latin American as "alien." Emphasis on Cortázar, Fuentes, Benedetti. Attention also to the portrayal of foreigners in Latin American Society. Professor Aguilar. M W F 10.

II. Surrealism in Spain.

An interdisciplinary approach to the manifestations of the Surrealist mode as evidenced in the poetry of Alberti, Aleixandre, Lorca, and Cernuda, in the films of Luis Buñuel, and in the paintings of Salvador Dalí. Professor Welles. M W F 11.

11y. The Equivalent of Spanish 11, but given in the Spring.

I. The Cuban Revolution and its Reflections in the Narrative.

Socio-political realities from 1959 to the present as they impact on literary expression. The relationship of art to ideology. Focus on Alejo Carpentier, Reynaldo Arenas and the most recent writers. Professor Coddou. M W F 11.

II. The Realm of Games in Contemporary Latin American Literature.

A study of games and playfulness in major Latin American works. Includes: Cortázar, Borges, Huidobro, Triani, Jodorowsky, Villaurrutia, and others. Professor Giordano. Tu Th 10:35-11:50.

13y. The Culture of Spain.

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Course 4 or 5. Professor Ucelay. M W 1:10-2:25.

15, 16. Spanish-American Culture. (formerly 14)

An introduction to the history of Spanish-American culture from Pre-Columbian times to the present. The first semester deals with Spanish-American history, society, and art, from the time of the great Indian empires to the late nineteenth century. The second semester examines subsequent developments up to the present day, with stress on contemporary revolutionary movements, mentalities, and purposes. The course is concerned with patterns of cultural identity and nationality, and involves anthropological as well as historical data. Both terms required of Latin American Areas majors. The first semester required of Spanish majors. Prerequisite: satisfaction of the language requirement in Spanish. Professor Coddou. M W F 1:10.

C3333x-C3334y. Masterpieces of Spanish Literature. (In Spanish)

A systematic survey of the major works of the great writers of Spain and Spanish America. Readings, discussions, and brief reports. Instructor to be announced. M W F 9.

17. Spanish Literature in the Middle Ages and the Early Renaissance.

Lectures and discussions in Spanish on Spanish literature from its origins to the beginning of the sixteenth century. Prerequisite: satisfaction of the foreign language requirement in Spanish. Professor Servodidio. M W F 10.

18. Literature of the Golden Age.

A study of the poetry, theater, and narrative of the Golden Age. Lectures and discussion of principal authors including Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón. Prerequisite: satisfaction of the foreign language requirement in Spanish. Professor Welles. Tu Th 1:10-2:25.

20. Don Quijote.

Close analysis and discussion of Cervantes' masterpiece. A study of the principal critical works as outside reading. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. M W F 11.

23y. Nineteenth Century Literature in Spain.

Romantic drama and poetry; the realistic novel with special emphasis on Galdós. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. M W F 10.

25. Contemporary Spanish Literature, Part I.

Characteristics, technique, and style of the writers of the generation of '98 from Unamuno to Ortega y Gasset. (Baroja, Valle-Inclán, Azorín, Benavente, A. Machado, Juan Ramón Jiménez will be specifically studied.) One term paper. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Servodidio. M W F 11.

26. Contemporary Spanish Literature, Part II.

The ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present-day writers. One term paper. Prerequisite: Course 17 or 18 or 25 or written permission of the instructor. Professor Welles. Tu Th 10:35-11:50.

31, 32. The Literature of Latin America.

Autumn Term: An introductory study from its indigenous origins in the Popol-Vuh, through the Colonial period to the twentieth century. Emphasis is placed on the Modernist poets and the literature of the Gaucho and the Indian. Professor Coddou. M W F 2:10. Spring Term: Post-Modernist poetry; Jorge Luis Borges; the contemporary Latin-American novel. Professor Aguilar. M W F 9.

[33. Senior Seminar. Not given in 1979-80.]

34. Latin American Seminar.

Designed for senior majors in Latin American areas to examine significant aspects of Latin American culture. At the beginning of the semester, four general themes will be established from which the student will choose one as a focus for her research. Professor Coddou. Tu 3:10-5.

SPANISH LITERATURE IN TRANSLATION

[40. Contemporary Latin American Narrative in Translation. Not given in 1979-80.]

[41. The Spanish Inquisition: Dissent and Conformity. Mr. Crapotta. Not given in 1979-80.]

Comparative Literature-Spanish C3810x. Don Quixote in Translation.

A critical examination of Don Quixote with particular emphasis on narrative technique and the structure of the novel. There is also a critical consideration of various kinds of novels and other narrative structures and modes (e.g. pastoral, sentimental, picaresque, romances of chivalry, the *novella*) in their relationship to Don Quixote and the history and development of the genre. Professor Selig. Tu Th 11-12:15.



Urban Studies

This program is supervised by the Committee on Urban Studies:

Professor of Political Science

Demetrios Caraley (Chairman; 408 Lehman Hall)

Professor of Anthropology

Paula G. Rubel

Professor of English

Barry Ulanov

Professor of Geography

Leonard Zobler

Professor of Sociology

Bernard Barber

Professor of Economics

Deborah D. Milenkovich

Associate Professor of Art History

Dorothea Nyberg

Assistant Professor of History

John W. Chambers

Instructor in Urban Studies and Political Science

Kathryn B. Yatrakis (Program Coordinator; 5B Lehman Hall)

The purpose of urban studies is to develop understanding of the basic institutions, problems, and achievements of city life. A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student should choose as major adviser the member of the committee from the department in which she intends to concentrate.

The major seeks, first, through departmental and interdepartmental courses, to expose the student to the concepts and findings of a broad variety of disciplines as they bear on urban subject-matter; and second, to encourage the student to acquire the techniques and habits of scholarly investigation through pursuit of more advanced and concentrated work in some particular urban-related discipline including the writing of a senior thesis.

The requirements for a major in Urban Studies are: (a) one course dealing primarily with urban subject-matter in each of three of the following departments from among those courses indicated: anthropology (V3100y, Urban Societies), economics (W3228x, The Urban Economy), history (W4673x or W4674y, American Urban History), political science (V3313y, American Urban Politics), sociology (V3265x, Minorities in American Life, V3324x, Urban Sociology; or their equivalents); (b) one course dealing primarily with urban subject-matter from a list approved by the committee in each of two other departments, such as art history, English, geography, psychology, biology, architecture, and urban planning; (c) in the junior year Urban Studies 45-46, and in the senior year Urban Studies 64; (d) satisfactory completion of a concentration in one of the participating departments consisting of not fewer than five courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

Note: A list of the specific courses that are approved for fulfilling requirement (b) and of the departments that offer concentrations for urban studies majors is available at the office of the Chairman.

35x. Colloquium-Workshop in Urban Administration and Management.

Readings, discussion, and analysis of the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership, decision-making, bureaucracy, and budgeting and fiscal control. New York City will be used as a case study, and students will be encouraged to gain first-hand observation of administration and management through internships in appropriate agencies. Prerequisite: Political Science 1 or V3313 or the equivalent. Mrs. Yatrakis. Tu 2:10-4.

45-46. Junior Colloquium in Urban Studies.

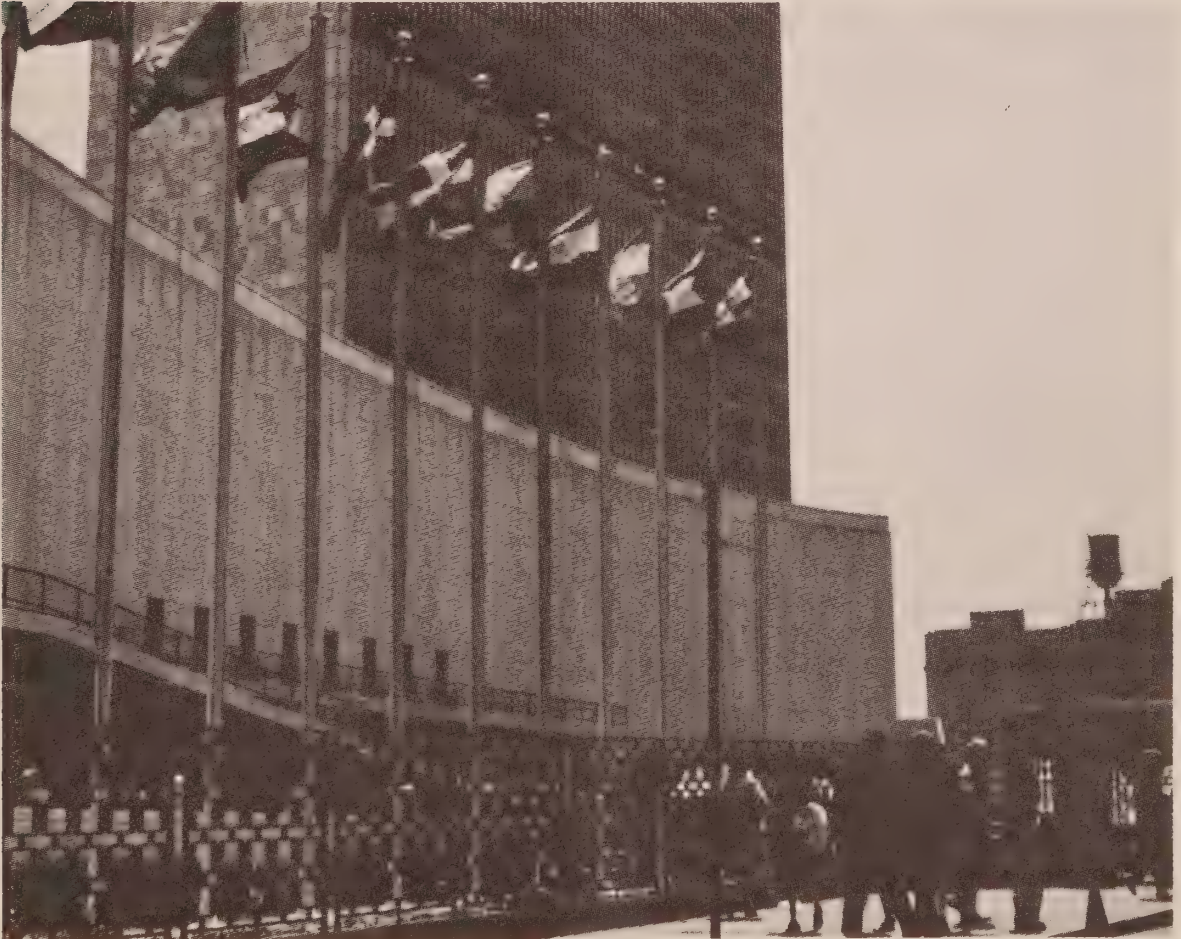
Autumn: An examination of urbanization using historical methods, concepts, and materials. Readings and discussions will focus on various types of cities in the past and on the origins of urban problems. Permission of the instructor required. Professor Chambers. W 2:10-4. **Spring:** An examination of selected problems that currently afflict urban areas and an assessment of attempted solutions. Particular attention is given to problems of urban development, housing, education, poverty, crime, and finances. Permission of the instructor required. Mrs. Yatrakis. Tu 11-12:50.

W3880y. Seminar in Urban Studies: Theory and Practice of Urban Planning.

Professor Kolodny. Hours to be arranged.

64. Senior Colloquium in Urban Studies.

Readings, discussions, and analysis of the future prospects of cities and metropolitan areas. Reports on research being conducted for the senior thesis in the department of concentration. Mrs. Yatrakis. Hours to be arranged.



Women's Studies

WOMEN'S STUDIES

This program is supervised by the Committee on Women's Studies:

Annette Baxter, Professor of History

Bettina Berch, Assistant Professor of Economics

Roberta Bernstein, Assistant Professor of Art History

Lila Braine, Professor of Psychology

Hester Eisenstein, Coordinator of the Experimental College

Jane Gould, Director of the Women's Center

Richard Gustafson, Professor of Russian

Morton Klass, Professor of Anthropology

Mirra Komarovsky, Professor Emeritus of Sociology (Chair, 317 Milbank)

Darline Levy, Assistant Professor of History

Nancy Miller, Assistant Professor of French (Columbia)

Susan Sacks, Assistant Professor of Education and Psychology

Catharine Stimpson, Associate Professor of English

Student members: Julia Dvorkin

Marianne Goldstein

Diane Levitt

The Women's Studies Program is an interdisciplinary major for students who wish to explore the basic questions raised by the new scholarship on women. Some of the issues touched upon in this field are: sex roles, sex differences, and the concepts of femininity and masculinity; the roles of women in culture and society, past and present, and their implications for the roles of men; questions about the distribution of power, work, and resources in the public and private domains; and the symbolic and religious place of feminine and masculine imagery.

Students majoring in Women's Studies focus their studies in one of two areas: history/humanities or the social sciences. An individual area of study may be developed, in special cases, in consultation with a member of the Women's Studies Committee. The major in Women's Studies is taken in conjunction with a concentration in one of the departmental disciplines.

The requirements for the major in Women's Studies are fourteen courses to be distributed as follows: (a) Women's Studies 11, 12, and 21-22; (b) five other Women's Studies courses (see listing below), at least three in the student's area of specialization and at least one in the other area; (c) five courses (other than Women's Studies courses) in the department of the student's concentration, to be selected in consultation with a member of that department.

WOMEN'S STUDIES COURSES

11. Major Texts of the Feminist Tradition.

Readings, discussion, and analysis of classic writings on the role and condition of women in the Western tradition. The seminar will explore some central problems and themes in the area of Women's studies. Open to non-majors. Instructor to be announced. Tu 10-11:50.

12. Colloquium in Women's Studies.

Contemporary research and theoretical developments in Women's Studies presented by guest lecturers discussing their work. Speakers and background readings are drawn from a variety of fields. Enrollment limited to juniors and seniors or with permission of the instructor. Prerequisites: two courses in Women's Studies or permission of the instructor. Dr. Eisenstein. Tu 4:10-6 and discussion hour to be arranged.

21-22. Senior Research Seminar.

Individual research in diverse subjects in Women's Studies selected in consultation with the instructor. The results of each research project will be submitted in the form of the senior essay, and presented to the seminar. Enrollment restricted to senior majors. Prerequisites: Courses 11 and 12. To be arranged individually for 1979-80.

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

[Anthropology 42x. Colloquium on Current Anthropological Theory: Male and Female in Cultural Analysis. Professor Rosman. Not given in 1979-80.]

Anthropology V3020y. Men's and Women's Speech.

Professor Woodbury. M W 1:10-2:25.

Anthropology V3021y. Sex Roles in Cross-Cultural Perspective. Professor Dwyer. Tu Th 1:10-2:25.

[Anthropology G8433x. Seminar on Sex Roles. Professor Dwyer. Not given in 1979-80.]

Art History 72. Women in Art.

Professor Bernstein. M W 4:10-5:25.

Art History 79. Contemporary Art by Women.

Professor Bernstein. Th 11-12:50.

Economics 10. Sex Discrimination and the Division of Labor. Professor Lloyd. Th 2:10-4.

Economics-History 56x. History of Women's Work. Professor Berch. Tu 4:10-6.

[English 40x. II. Sex, Gender, and Symbols. Professor Stimpson. Not given in 1979-80.]

English 40. VIII. Sex, Gender, and the City.

Professor Stimpson. M W F 10.

English G8510x. Studies in Female Selfhood: Literature and Psychology.

Professor Heilbrun.

Experimental College 3. Contemporary Feminist Thought.

Dr. Eisenstein. M 2:10-4.

[French 20x. Special Themes in Modern French Literature: Women Writers of the Twentieth Century. Professor Greene. Not given in 1979-80.]

French 43y. French Women Writers. Professor Greene. Tu Th 1:10-2:25.

History 6. The History of Women in the Middle Ages. Professor Wemple. Tu 2:10-4.

History 32. Women in Revolutionary Paris. Professor Levy. W 2:10-4.

History 81y. History of Women in America to 1890. Professor Baxter. Tu 2:10-4

[History 82. History of Women in America since 1890. Professor Baxter. Not given in 1979-80.]

Planning A4058y. The Built Environment: Sex Roles and Social Policy (formerly: Women in Planning and Architecture). Professor Leavitt.

Political Science 4. Freshman Seminar in Government.

Section I. Women and Politics. Professor Yatrakis. Tu 11-12:50

Psychology 42. Child-Rearing: A Survey of Alternative Practices.

Professor Sacks. Tu Th 10:35-11:50.

Psychology 71. Psychology and Women.

Instructor to be announced. Tu 2:10-4.

Sociology V3303x. Female and Male: A Sociological Perspective.

Professor Komarovsky. M W 12:30-1:45.

Sociology G4018y. Sex Roles and Society.

Professor Zelizer. Th 11-12:50.

[Spanish 11. Woman: Myth and Reality. Professor Welles. Not given in 1979-80.]

VIII. Professional Schools

Professional and graduate training is offered at various schools in Columbia University, and their Bulletins are available in the office of the Secretary of Columbia University. Information and advice concerning advanced work in the University may be obtained from advisers at Barnard.

The requirements for admission vary and must be checked by reference to current regulations and by inquiry to the Office of University Admissions or to the specific school. In some instances a student is eligible after two or three years of college study; in others a Bachelor's degree is essential.

SCHOOLS REQUIRING THE BACHELOR'S DEGREE

ARCHITECTURE

The Graduate School of Architecture and Planning offers courses of study leading to the Degree of Master of Architecture. Under normal conditions, the degree may be obtained in three years.

The requirement for admission to the School is an undergraduate degree in any field or the equivalent. In addition to the degree, three specific courses are required: one semester of physics; one semester of architectural history or art history; and one semester of painting, drawing or sculpture. One semester of calculus is recommended. The courses offered by the School are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of Architecture Admissions, 400 Avery Hall, 280-3510.

BUSINESS

Programs leading to the MBA degree and the Ph.D. degree in business are available on a full-time, day study basis. In addition to the areas available at the Business School, special concentration areas can be arranged in conjunction with other graduate faculties. Combined degree programs at the master's level are offered with the Schools of Journalism, Law, Architecture, Medicine (Public Health), International Affairs, Social Work, and Engineering and Applied Science, and at the doctoral level with Teachers College.

Through the general approach of its core courses and study in one of the fields of business and management, students prepare for diversified managerial positions.

The Columbia Business School operates on a trimester program of instruction. A student may begin studies during the Summer, Autumn, or Spring Term and may complete the degree requirements in four consecutive terms, or may elect not to attend the school for any one four-month term for purposes of employment or vacation, and return to complete the four-term requirements.

Qualified seniors may inquire into cross registration. Business School courses completed in excess of the undergraduate degree requirements may be applied toward MBA credit to a maximum of five courses.

For further information, please write to the Graduate School of Business Admissions Office in Uris Hall.

INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The School of International Affairs awards an M.I.A. degree on the completion of 48 points of graduate credit. The curriculum is intended to prepare students for careers in a variety of international fields. The program combines emphasis on international politics, international economics, regional specialization, and a functional specialization (such as international business, international law, foreign policy analysis and international communication).

Barnard College and the School of International Affairs offer a joint program leading to the A.B. degree at the end of four years and the Master of Arts in International Affairs (M.I.A.) after one additional year.

Application to the program is made in the junior year, although it is advisable to consult the adviser at Barnard College and one at the School of International Affairs as early as possible to plan a suitable pro-

gram. Admission to the joint program does not constitute automatic admission to the School of International Affairs. The student in the program will apply for admission to the School of International Affairs in the fall semester of her senior year. Among other criteria, final admission is conditional upon the applicant's receiving the A.B. degree from Barnard College with an approximate 3.5 grade point average.

A Barnard student in the program must satisfy all basic, general, and major requirements for the A.B. degree at Barnard. Courses in the School of International Affairs may be used to fulfill major requirements only with the written permission of the chairman of the department in which the student is majoring.

A Barnard student admitted to the program is required to take Economics 27 and 28 or their equivalents by the end of the junior year, if possible, and in the junior and/or senior years, four courses from the core curriculum of the School of International Affairs. In the fifth year of the program, a student will take 30 credits of course work at the School of International Affairs and complete other requirements as set forth by the School.

Further information may be obtained from the Bulletin of the School of International Affairs and from the Office of the Dean of Studies at Barnard.

The Regional Institutes give certificates in conjunction with the degree program in the School of International Affairs or the Graduate School of Arts and Sciences. The Regional Institutes at Columbia are as follows: East Asian Institute, Near and Middle East Institute, the Institute on East Central Europe, Russian Institute, Institute on Western Europe, Institute on African Studies, the Institute of Latin American Studies, and the Southern Asia Institute.

Further information may be obtained from the Office of University Admissions, 106 Low Library.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should include a broad spectrum of courses ranging from literature and languages, to the social sciences and history.

LAW

The School of Law offers a three-year course of study leading to the degree of Doctor of Jurisprudence. There is no required prelaw curriculum.

Admission is on a competitive basis. All applicants are required to take the Law School Admission Test (LSAT) and register with the Law School Data Assembly Service (LSDAS). The test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

LIBRARY SERVICE

The School of Library Service offers a program leading to the degree of Master of Science, usually completed over an autumn term, a spring term, and a summer session. The program offers the basic professional preparation needed for careers in public, school, academic, and special libraries, and in related occupations such as archival management and information sciences. A Bachelor's degree is required for admission to this school. Undergraduate work should include an appropriate distribution of study in the humanities, the social sciences, and the sciences, with a strong concentration in at least one area.

Further information may be obtained by writing to the Office of Admissions, School of Library Service, 516 Butler Hall, Columbia University, New York, New York 10027.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doc-

Professional Schools

tor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biological sciences, general chemistry, organic chemistry and a laboratory course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

PUBLIC HEALTH

The School of Public Health offers graduate programs leading to the Master of Public Health degree and Master of Science degrees in Biostatistics and Epidemiology. Students in the Master of Public Health program may concentrate in one of the following areas: general public health, biostatistics; environmental management; epidemiology; health administration, including health planning, health facilities, and health program administration; mental health; population and family health; and tropical medicine. The Master of Public Health requires a minimum of three semesters of course work and at least one semester of supervised practical experience. The Master of Science degree may require two academic years of study. A Bachelor's degree, some evidence of satisfactory preparation in quantitative subject areas, and an acceptable academic average are requirements for admission.

For further information write to the Office of Admissions, School of Public Health, 600 West 168th Street.

SCHOOL OF THE ARTS

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a two-year course of study leading to the degree of Master of Fine Arts in painting and sculpture, film, and writing, as well as the degree of Doctorate in Musical Arts in musical composition.

A bulletin describing these graduate courses, and also undergraduate courses, is available at the Dean's Office, School of the Arts, 617 Dodge.

SOCIAL WORK

The Columbia University of Social Work offers a two-year course of study leading to the degree of Master of Science. Joint degree programs are offered with the School of Public Health, the School of Business, and the School of Architecture, Division of Urban Planning. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include sixty semester hours in liberal arts with a minimum of twenty hours in the biological and social sciences, with emphasis in the direction of the social sciences. A limited number of applicants may be considered for the M.S. program upon completion of three years of full-time undergraduate study. Applications should be filed in January of the junior year.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for filing applications, may be obtained from the Director of Admissions, 622 West 113th Street, New York, N.Y. 10025.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degree of Master of Divinity, Master of Arts in Education and Theological Studies, Master of Arts in Biblical Literature and Comparative

Study of Religions and a Doctor of Philosophy in Theology. The seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give special promise of usefulness in some form of Christian ministry.

Further information may be obtained from the Office of the Academic Dean, 3401 Broadway, New York, N.Y. 10027.

SCHOOLS NOT REQUIRING THE BACHELOR'S DEGREE

Admission may be gained to the following professional schools without a Bachelor's degree.

DENTAL HYGIENE

The Division of Dental Hygiene, School of Dental and Oral Surgery, offers a junior-senior course of study leading to a Bachelor of Science in Dental Hygiene. Applicants must have completed two years or sixty semester points of work in approved colleges or universities, including six points of English composition, four points of chemistry, four points in biology, three points in psychology, and three points in sociology. Graduates are qualified for licensing examinations in all states.

Further information may be obtained from the Dental Hygiene Admissions Office, Room 7-204, School of Dental and Oral Surgery, 630 West 168 Street.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. Required preparation at Barnard College is a minimum of three years including one academic year or its equivalent of the following courses: English composition and literature, inorganic chemistry, organic chemistry, physics and biology.

The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates.

ENGINEERING AND APPLIED SCIENCE

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the Engineering School. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard College, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and, if possible, chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the Bulletin of the School.

Professional Schools

INTERNATIONAL AFFAIRS

See entry on page 192 for description of five year A.B./M.I.A. joint Barnard College-School of International Affairs program.

NURSING

The School of Nursing offers a four-year program leading to a Bachelor of Science Degree in Nursing. The required liberal arts courses are taught by the faculties of Barnard College and the School of General Studies. Students begin their nursing courses in the freshman year. Clinical facilities are provided by several community agencies, St. Luke's Hospital Center, Roosevelt Hospital, and the Columbia-Presbyterian Medical Center. College graduates and junior transfers are admitted to this program for a two-year course of study.

The School also offers graduate programs leading to a Master of Science Degree following a two-year course of study in: Maternity Nursing-Nurse Midwifery; Pediatric Nursing; or Psychiatric-Community Mental Health Nursing-Adult/Child Psychiatry.

Further information may be obtained by writing to the Office of Admission, School of Nursing, Columbia University, 179 Fort Washington Avenue, New York, New York 10032.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a graduate program leading to a Master of Science degree in occupational therapy which requires for admission an acceptable baccalaureate degree including stated prerequisites in English, biology, psychology, and sociology. The program of study includes sixty semester credits and eight months of clinical experience.

For additional information write to the Director, Programs in Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in physical therapy. The candidate for admission must present two years of acceptable college work, including courses in biological sciences, physics, English, and psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include two courses each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a six-week clerkship following the junior year of study.

A graduate program of 14 calendar months is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, depending on previous preparation in biological science, physics, English, and social science. The Faculty of Medicine awards a certificate upon satisfactory completion of this course.

JEWISH THEOLOGICAL SEMINARY—SEMINARY COLLEGE

Although not a school in the University, the Jewish Theological Seminary, because of its proximity, offers opportunities for specialized study. Students interested in taking such courses for credit may do so with the permission of their advisers in consultation with the chairpersons of the relevant Barnard departments. Such courses are evaluated as transfer credit (see p. 31). With prior planning and approvals, Barnard students may take a year's study in residence at the Seminary College. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the Barnard A.B. degree.

The costs of education at Barnard are met by tuition, by income from endowment, by current gifts from alumnae and other friends of the College, and by grants from foundations, corporations, and government departments. The College makes every effort to limit charges to students, but must reserve the right to set fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF FEES AND CHARGES

The following fees are required from all students for each Autumn or Spring Term and are subject to change without prior notice.

Tuition

Full program (3 to 5 courses)	\$2,560.00
Partial program (less than 3 courses). Charges will be assessed on a course or fraction of a course basis regardless of degree credit received. Per course	640.00
Excess program (6 or more courses). Charges will be assessed on a course or fraction of a course basis regardless of degree credit received. Per course	640.00
Health Service (see page 200)	55.00
Insurance (see page 200)	30.00
Undergraduate Association Student Activity Fee	25.00

The following fees are required from all students occupying College housing facilities for each Autumn or Spring Term:

Reid, Brooks and Hewitt Halls	
Room—Single	750.00
Double	720.00
Triple	690.00
Quadruple	660.00
Board—Autumn Term	430.00
Spring Term	440.00
600, 616 and 620 West 116th Street	
Room—Single	795.00
Double	765.00
Plimpton Hall	
Room—Single	795.00
Double	765.00

Other fees—required where applicable:

Application for admission	25.00
Registration in absentia	75.00
Physical education—part-time students	160.00
Orientation fee (All students entering Barnard College for the first time in the Autumn Term)	50.00
Senior fee (All graduating seniors)	25.00
Laboratory—Biological Sciences	40.00
Chemistry	22.00
Psychology	10.00

Fees

Deferred and special examinations (one taken at any other than at the conclusion of a course), payable when application is filed. For each such examination 15.00

Late Registration fee—\$5.00 for filing on the day after the deadline; \$10 through September 20; \$25 after that date if permission to register has been granted.

Late Program Filing fee—\$5.00 for filing on the day after the deadline; \$20.00 through September 27, plus \$10 for each week or part of a week thereafter.

Late filing of:	
Application for deferred or special examination	5.00
Application for language placement test	5.00
Tentative program	10.00

Under certain circumstances, course or departmental charges may be made. Please see announcements of departmental offerings and special requirements for courses in the University.

DEPOSITS

All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before **May 15**. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than **July 2** for the Autumn Term or **December 15** for the Spring Term.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$200 is payable by **May 15** to secure the assignment of a room for the following academic year. One-half of this deposit (\$100) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than **July 2** for the Autumn Term or **December 15** for the Spring Term.

PAYMENT OF CHARGES AND FEES

All charges and fees are payable seminannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes the late registration fee. See above.

Payment of residence charges (accompanied by a copy of the bill) must be made by **August 1** for the Autumn Term and by **December 15** for the Spring Term. Rooms will not be held for students whose residence bills are not paid by these dates.

Payment of tuition and fees (accompanied by a copy of the bill) must be made by **August 1** for the Autumn Term and by **December 15** for the Spring Term. Students admitted for the Autumn Term after August 1 must pay their bills by the first day of registration. A late processing fee of \$25 will be charged on all payments made or postmarked after midnight on the above dates.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any), but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$25, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or a Tuition Assistance Program (TAP) Award may deduct the amount received in 1978-79 or the amount estimated by the Financial Aid Office provided they submit a copy of the certified or registered mail receipt indicating they have filed an application for 1979-80.

DEFERRED PAYMENT

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. Barnard College has no established plan for installment payments. The cost of operating such a plan and the fact that the College operates with a limited administrative staff preclude the possibility of such an arrangement. The college has arranged to participate in the Insured Tuition Payment Plan of Boston and the Tuition Plan, Concord, New Hampshire, which offer convenient payment programs for parents who desire to budget the annual cost in monthly installments. These plans may include insurance protection which covers the balance of the cost of the entire educational program in the event of death or disability of the insured parent. Brochures describing these plans will be sent to all parents of incoming students.

The college will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before **August 1** for the Autumn Term or **December 15** for the Spring Term.

ADJUSTMENT OF FEES AND REFUNDS

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by **September 20** in the Autumn Term and by **February 4** in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from the College after **July 2** for the Autumn Term and **December 15** for the Spring Term, the following amount of tuition and resident fees paid will not be refunded:

Tuition and fees	\$ 50.00
Resident fees: Autumn Term	100.00
Spring Term	100.00

Up to and including the first Friday of the term (see the College Calendar), the remaining tuition and fees which the student has paid will be refunded in full. After the first Friday of the term, ten percent of the remaining tuition and fees will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the College Calendar), the remaining residence fees that the student has paid will be refunded in full. After the first Friday of the term, ten percent of the remaining residence fees will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

The refund will be based on the same schedule as refunds to students who withdraw from the College and will not be payable until and unless the room is rented for the remainder of the semester. Requests for exceptions to this policy should be addressed to the Associate Dean of Students.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal adjustment that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Fees

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

OTHER EXPENSES

The following information may be helpful in budgeting expenses not payable to the College: a minimum of \$200 per year for textbooks; \$335 to cover weekend meals when the dining hall in Brooks-Hewitt-Reid is closed; for students in "600," "616," "620," and Plimpton approximately \$780 for food; for commuting and nonresident students approximately \$210 for lunches at the College; approximately \$450 for clothing, laundry, recreation and miscellaneous expenses. Individual estimates of expense should also include allowances for transportation for nonresident and commuter students, or two round-trip fares from home to college for resident students.

STUDENT HEALTH SERVICE AND INSURANCE

Campus medical service is available to all Barnard students and is covered by the Health Service fee payable each term. This service is not available during college vacations.

Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians
- 2) an unlimited number of visits to the gynecologists and dermatologist
- 3) use of the Counseling Service

The following services are available at an additional charge; these services are covered by the Barnard Insurance Plan when ordered by Barnard staff physicians:

- 1) hospitalization at Presbyterian Hospital
- 2) medications
- 3) laboratory tests and x-rays
- 4) consultations

The following services are not provided:

- 1) home visits
- 2) consultations when the College is not in session
- 3) dental care
- 4) filling of prescriptions by outside physicians

Students are encouraged to consult *Barnard Health Service, a Student Guide* for additional information on health services.

Enrollment in the Barnard insurance program is compulsory. For further details consult the Barnard Insurance Brochure.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. A validated ID card is issued after a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank

Broadway and 113th Street, New York, N.Y. 10025

Citibank

Broadway and 111th Street, New York, N.Y. 10025

American Savings Bank

Broadway and 111th Street, New York, N.Y. 10025

Insofar as possible, Barnard helps qualified students who have financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, or national/ethnic origin.

Financial aid from the College consists primarily of grants and loans, although opportunities for part-time employment are also provided. In addition to providing financial aid from its own funds i.e. gifts, endowment and general income, Barnard participates in the following Federal programs: the Basic Educational Opportunity Grant program, the Supplemental Educational Opportunity Grant program, the National Direct Student Loan program, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks and insurance companies.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated the need for financial aid.

FINANCIAL AID AWARDS

Financial aid awards are made by the Committee on Financial Aid to full-time students who demonstrate financial need.

The system of awarding financial aid according to need is based on the concept that the applicant's family has the primary responsibility for financing a college education; financial aid is intended to supplement what a family might reasonably be expected to contribute toward an applicant's college expenses. In addition to parental resources, each applicant is expected to provide a reasonable amount from her own assets, summer employment, and other resources, such as social security and veteran's benefits, to which she might be entitled.

An individual student's need is determined by the need analysis system of the College Scholarship Service (CSS) and is based on information provided by the parents/student on the Financial Aid Form (FAF). Consideration is given to such things as family income, assets, size of family, age of parents, and number of children attending college. The Office of Financial Aid thoroughly reviews each analysis and may adjust the CSS need determination whenever there is documentation of special family problems or whenever there is reason to believe that information provided on the FAF is incorrect or incomplete.

The College will be the sole judge of the financial aid to be granted, and may, at any time, withdraw or discontinue such aid.

When funds are not sufficient to meet the needs of all students who are offered admission, aid will be offered to as many well-qualified applicants as possible, with preference to those needy students whom the Committee on Admissions determines to be the strongest applicants.

Awards are for one year only. Students who receive aid, upon entering Barnard, must submit a new application each year in order to be considered for aid in succeeding years.

Students who do not receive aid on entering Barnard should not expect aid from the College in subsequent years. Only after discharging obligations to students already receiving aid and to entering freshmen will the College be able to consider applications from such students.

APPLICATION PROCEDURES

Entering Freshmen: A Barnard College "Application for Financial Aid" may be obtained from the Admissions Office. It should be completed and returned to that office on or before **February 1**, by regular applicants, and on or before **November 15** by Early Decision applicants.

Financial Aid

Each financial aid applicant must also have her parents file a Financial Aid Form (FAF) with the College Scholarship Service (CSS) not later than **February 1** of her senior year in high school. The FAF should be obtained from the high school guidance office. (NOTE: **Children of divorced or separated parents and those applicants claiming "self-supporting" status should consult with the Office of Financial Aid before filing the FAF.**)

Applicants should mail the completed FAF, with the appropriate fee, to the CSS at the address indicated on the form. **Barnard's CSS Code Number, which must be listed on the FAF, is 2038.** The CSS will then send a complete copy of the FAF and an analysis to Barnard.

Barnard requires aid recipients who expect to enroll in September to provide exact copies of parents' federal income tax returns (IRS Form 1040) prior to disbursement of financial aid funds. Tax returns are used to verify information on the FAF.

Students applying for admission under the Early Decision Plan should file an FAF with the College Scholarship Service by **November 15**, or as soon after that date as forms are available, but not later than **January 15**.

All financial aid applicants **must** apply for a Basic Educational Opportunity Grant (BEOG), preferably by completing the section on the Financial Aid Form designated for that purpose.

Each student who submits a complete financial aid application will be considered for all types and sources of financial aid administered by the College, including federal, state, and institutional grants, loans, and work programs. Students are normally notified of the College's financial aid decision when they are notified of their admission.

Barnard confers with several colleges with which it has a high frequency of common applicants so that some consensus can be reached on the expected family contribution. This procedure helps to insure that a student's choice among these colleges can be based on other than financial reasons. If an entering freshman applies to more than one of these colleges (Amherst, Barnard, Bowdoin, Brown, Bryn Mawr, Colby, Cornell, Dartmouth, Harvard-Radcliffe, Middlebury, Mount Holyoke, Princeton, Smith, Trinity (Conn.), Tufts-Jackson, University of Pennsylvania, Vassar, Wellesley, Wesleyan, Williams and Yale), her financial aid awards will usually vary only because of differing costs at the respective colleges.

Transfer Students: Barnard College grants are awarded to a limited number of transfer students who demonstrate financial need. All transfer students who apply for financial assistance should also apply for grants through the Basic Educational Opportunity Grant (BEOG) program, state scholarship/tuition assistance programs, and other outside scholarships. Transfer students may also be considered for low-interest loans or part-time employment through the College.

Application procedures are the same as for entering Freshmen, except that forms must be submitted on or before **December 1** for students expecting to enter in January, and **June 1** for students expecting to enter in September.

Students Enrolled at Barnard: Students already receiving financial aid from Barnard must apply each year for renewal of their award.

Other enrolled students may also apply, although aid for such students cannot be assured. Applications from such students can only be considered after Barnard meets its obligations to students already receiving aid and to entering freshmen.

Each applicant must submit (1) the required Barnard College application forms, (2) the Financial Aid Form (FAF) of the College Scholarship Service, and (3) a notarized copy of the family's federal income tax form (IRS Form 1040), or other appropriate document if the family is not required to file the IRS Form 1040. A New York State resident must also submit a copy of the family's New York State income tax return.

Application forms are available in the Office of Financial Aid at the beginning of the Spring semester.

Applications must be **submitted** on or before April 16, unless otherwise announced by the Office of Financial Aid. Notices of Barnard's financial aid decisions will be mailed to applicants by **July 1**.

NEW YORK STATE TUITION ASSISTANCE PROGRAM (TAP) AWARDS

A student who has been a legal resident of New York State for the preceding year may be entitled to a TAP Award (\$50 to \$750 per term) for up to four years while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State income tax return for the previous year. Application for awards must be made annually and should be filed by July 1 for each academic year.

Set forth below is a schedule of TAP awards on the basis of net taxable income. The net taxable income shown on the table is gross income less exemptions and deductions (line 5 of the New York State Tax "Short Form," or line 9 of the New York State Tax "Long Form"). A family's net taxable income, for the purpose of determining a TAP award, can be reduced \$3,000 for a second family member in full-time attendance at college, and by \$2,000 for each additional family member in college. TAP awards for Juniors and Seniors are \$200 less than the amounts shown on the schedule.

NET TAXABLE INCOME	ASSISTANCE AVAILABLE	NET TAXABLE INCOME	ASSISTANCE AVAILABLE
\$0-2,750	\$1,800	\$12,000	\$1,115
3,000	1,785	13,000	1,015
4,000	1,725	14,000	915
5,000	1,665	15,000	795
6,000	1,595	16,000	675
7,000	1,525	17,000	555
8,000	1,455	18,000	415
9,000	1,375	19,000	275
10,000	1,295	20,000	200
11,000	1,215	over \$20,000	0

Further information and application forms may be obtained from the New York Higher Education Services Corporation, Empire State Plaza, Tower Building, Albany, New York 12223.

NEW YORK REGENTS COLLEGE SCHOLARSHIPS

Each year the Regents of the University of the State of New York award scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on one's performance on a competitive examination and are open to students in any approved college or university in the state. Awards are set at \$250 per year. High school students can get further information from their counselors. New York Regents Scholarships are not automatically renewed; recipients must reapply annually. All Regents Scholarship holders must complete a TAP application no later than November 15 of the academic year for which they are requesting payment.

BASIC EDUCATIONAL OPPORTUNITY GRANT (BEOG)

This federal program provides grants ranging from \$166 to \$1,800 to eligible undergraduate students.

Students can apply for BEOG's by completing the appropriate section on the Financial Aid Form (FAF) of the College Scholarship Service. BEOG applicants will be notified of eligibility by a Student Eligibility Report (SER) mailed to the students' homes by the BEOG office in Iowa City.

Financial Aid

A student enrolling at Barnard should bring all three copies of her SER to the Office of Financial Aid whether or not she has been designated as eligible for a BEOG.

Students should consult the Office of Financial Aid if they have any questions about the BEOG program, or its application procedures.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG) PROGRAM

This federal program provides grants ranging from \$200 to \$1500 per year (\$4,000 maximum for a four-year course of study) for undergraduate students of exceptional financial need. Barnard selects SEOG recipients from among those students to whom the College awards financial aid. The SEOG award is matched by a grant from the College, and/or by grants from eligible federal, state, or private programs.

HIGHER EDUCATION OPPORTUNITY PROGRAM (HEOP)

HEOP is a special program which provides grants to residents of New York State who meet the economic criteria established by the State Education Department. Eligible students must also be considered educationally disadvantaged as compared with the average Barnard applicant. Information about the academic and economic criteria can be obtained from the Office of Admissions and the Office of Financial Aid, respectively.

LOAN FUNDS

Financial aid, in the form of student loans, is available to eligible Barnard students through the programs listed below. ***Amounts received through these programs must be repaid.***

National Direct Student Loan (NDSL)

The NDSL program provides low interest loans to needy students. The maximum amount which an undergraduate may borrow cannot exceed \$2,500 for the first two years of attendance and \$5,000 for the four year program. Repayment of an NDSL begins nine months after the borrower graduates or leaves school for other reasons and may continue for ten years. During the repayment period the borrower will be charged three percent (3%) interest on the unpaid balance of the loan principal.

Guaranteed Student Loan (GSL)

The GSL program enables students to borrow directly from a participating lender such as a bank, credit union, or savings and loan association in their home states. Students should consult their local banks for information and application forms.

The maximum amount which an undergraduate may borrow is \$2,500 a year. Some lenders, however, set a lower limit on the amount a student may borrow in one year. The total amount which a student may borrow as an undergraduate is \$7,500.

The interest rate on GSL loans is seven percent (7%) per year. An insurance premium of up to one percent (1%) per year may be collected in advance. For eligible students, the Federal Government will pay the interest on these loans until repayment begins and during authorized periods of deferment.

All students, regardless of family income, automatically qualify for Federal interest benefits.

Repayment of a loan begins between nine and twelve months after a borrower graduates or ceases **full-time** study and may continue for as many as ten years. The amount of a borrower's payments depends upon the size of her cumulative loan, and her ability to pay; but usually amounts to at least \$360 a year. Payments may be deferred if the borrower continues **full-time** study at a graduate or professional school. A one-year deferment for a period of not more than one year is also provided for borrowers who are unable to find full-time employment.

Barnard College Loans

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276, to be used with preference for a student from a Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Clercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with \$100,000 at the bequest of Gertrude C. Hitchcock. In 1972, the Mildred Goetz Loan Fund was established with a \$50,000 bequest of Norman S. Goetz.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$250 are granted upon application to the Office of Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$25,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Office of Financial Aid, to mature when the student terminates her connection with the College.

STUDENT EMPLOYMENT

College Work-Study Program (CWSP)

This federal program provides job opportunities for financial aid recipients who wish to earn a portion of their college expenses. Work-Study awards are made by the Office of Financial Aid. On-campus and off-campus jobs are arranged through the Office of Career Services, and priority is given to students demonstrating the greatest need. Wages vary, but will always be equal to or greater than the minimum wage rate. Jobs usually entail 6-10 hours of work per week, with a limit of 15 hours per week during the academic year.

Other Employment

In addition to Work-Study jobs, the Office of Career Services lists a variety of part-time jobs, both on and off-campus. Job opportunities are usually numerous, due to Barnard's location in New York City.

BARNARD COLLEGE FUNDS

The funds listed on the following pages were established by gifts, endowments, or in trust. The income from these funds is awarded **by the College**, on the basis of financial need, to students who apply for assistance **through the regular financial aid program**.

Scholarship Funds

UNRESTRICTED¹

Niels J. Allison Fund (1964).

From the estate of Beatrice C. Allison '12. \$55,229.

Alumnae Scholarship Fund (1922).

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$24,242.

Anna E. Barnard Scholarship Fund (1899).

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

Joan H. Baum Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of Joan H. Baum '52. \$5,000.

Frances E. Belcher Scholarship Fund (1963).

By bequest of Miss Frances E. Belcher. \$42,257.

Ruth Marshall Billikopf Scholarship Fund (1950).

In honor of Ruth Marshall Billikopf '19. \$5,000.

Varian White Blumberg Scholarship Fund (1952).

From the estate of Varian White Blumberg '13. \$5,000.

Elizabeth M. Bogardus Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Elizabeth M. Bogardus '44. \$20,357.65.

Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).

By bequest of Annie P. Burgess. \$10,000.

Eva-Lena Miller Booth Scholarship Fund (1932).

In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

Dorothy S. Boyle Scholarship Fund (1978).

By the Trustees out of funds left to the College by a bequest of Dorothy S. Boyle '40. \$10,025.

Josephine Brand Scholarship Fund (1970).

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$36,290.

Brearley School Scholarship Fund (1889).

By pupils and former pupils of the Brearley School. \$3,000.

Martha Ornstein Brenner Scholarship Fund (1915).

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

Arthur Brooks Fund (1897).

As a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence, by Olivia E. Phelps Stokes. \$5,000.

Elizabeth Hobe Burnell Scholarship Fund (1971).

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

Fanny Steinschneider Clark Scholarship Fund (1978).

By bequest of Fanny S. Clark '24. \$17,500.

Thomas F. Clark Students' Fund (1928).

By bequest of Mrs. Fanny Foster Clark. \$100,000.

¹Figures indicate principal of funds as of January 1, 1979.

Jennie B. Clarkson Scholarship Fund (1898).

By Mrs. W. R. Clarkson. \$3,000.

Class of 1918 Scholarship Fund (1975).

In memory of Marion McCaffrey Backus and other deceased members of the class of 1918, by bequest of Andrew P. Backus. \$8,075.

Class of 1921 Scholarship Fund (1931).

A tenth reunion gift by the Class of 1921. \$2,500.

Class of 1925 Scholarship Fund (1975).

A fiftieth reunion gift by the class of 1925. \$14,650.

Class of 1930 Scholarship Fund (1975).

A forty-fifth reunion gift in memory of Margaret Holland, by the class of 1930. \$6,441.

Class of 1933 Scholarship Fund (1973).

A fortieth reunion gift by the class of 1933. \$16,581.

Class of 1935 Scholarship Fund (1975).

A fortieth reunion gift by the class of 1935. \$8,605.

Class of 1936 Scholarship Fund (1971).

A thirty-fifth reunion gift by the class of 1936. \$8,917.

Class of 1953 Scholarship Fund (1973).

A twentieth reunion gift by the class of 1953. \$5,255.

Class of 1954 Scholarship Fund (1955).

Gifts of the Class of 1954 through their twentieth reunion. \$8,877.

Class of 1959 Scholarship Fund (1974).

In memory of Jacqueline Zelniker Radin '59. \$15,025.

Martine Cobanks Scholarship Fund (1973).

From the Estate of Alvena Martine Cobanks '19. \$10,000.

College Bowl Scholarship Fund (1968).

With gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

Yvonne Moen Cumerford Scholarship Fund (1972).

By bequest of Yvonne Moen Cumerford '23. \$10,000.

Vera B. David Scholarships (1962).

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

Ada M. Donelle Scholarship Fund (1948).

By bequest of Mrs. Ada M. Donelle. \$121,751.

L. Adele Dorsett Fund (1971).

By bequest of Herman F. Smaltz in memory of Adele Dorsett Smaltz '06. \$1,000.

Helen Geer Downs Scholarship Fund (1974).

By the Trustees out of funds left to the College by Helen Geer Downs '40. \$10,000.

Amelia Cary Duncan Scholarship Fund (1976).

In memory of Amelia Cary Duncan, by an anonymous donor. \$27,000.

May Parker Eggleston Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of May Parker Eggleston '04. \$5,000.

Scholarship Funds

Sarah Engel Scholarship Fund (1973).

From the Estate of Sarah Engel '15. \$10,000.

Laura Teller Ericsson Scholarship Fund (1976).

In memory of Laura Teller Ericsson '32, by the Trustees out of funds left to the College by a bequest of Maude T. Griffing. \$21,118.

Margaret Jane Fischer Scholarship Fund (1968).

With a gift from Margaret Jane Fischer '35. \$10,014.

Fiske Scholarship Fund (1895).

By Mrs. Martha T. Fiske-Collord. \$5,000.

Edyth Fredericks Scholarship Fund (1974).

In honor of Edyth Fredericks, by her niece Ellina Golub. \$5,770.

Doris P. Gallert Scholarship Fund (1970).

By the Trustees out of funds left to the College by a bequest of Doris P. Gallert. \$6,000.

Galway Fund (1912).

By an anonymous donor. \$2,400.

Anita Hyman Glick Scholarship Fund (1968).

In memory of Anita Hyman Glick '62 by her family and friends. \$12,620.

Irma Alexander Goldfrank Fund (1919).

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

Graham School Scholarship Fund (1907).

By the Graham Alumnae Association. \$7,300.

Ethel C. Gray Scholarship Fund (1973).

By the Trustees out of funds left to the College by a bequest of Ethel C. Gray '17. \$5,195.

Louise H. Gregory Scholarship Fund (1955).

With gifts in memory of Louise H. Gregory. \$4,547.

Hetta Stapff Halloran Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of Hetta Stapff Halloran '11. \$10,000.

Harkness Scholarship Fund (1939).

With a gift from Edward S. Harkness. \$100,000.

Jane Harnett Scholarship Fund (1978).

By the Trustees out of funds left to the College, and by gifts from her family and friends. \$5,257.

Helen May Smith Helmle Scholarship Fund (1973).

By the Trustees out of funds left to the College by the life income contract of Helen May Smith Helmle '30. \$72,932.

Margaret Holland Scholarship Fund (1975).

In memory of Margaret Holland, by the Trustees out of funds left to the College by Margaret Holland. \$22,850.

Rita Hilborn Hopf Memorial Scholarship Fund (1966).

By bequest of Rita Hilborn Hopf '14. \$270,403.

Charles Evans Hughes Scholarship Fund (1952).

By bequest of Charles Evans Hughes. \$14,300.

Eleanor Levison Israel Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Eleanor Levison Israel '39. \$5,000.

Lily Murray Jones Scholarship Fund (1950).

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

Mildred K. Kammerer Scholarship Fund (1973).

By bequest of Mildred K. Kammerer '19. \$6,800.

Mirra Komarovsky Scholarship Fund (1975).

With gifts from alumnae and other friends. \$6,599.

Elsie M. Kupfer Scholarship Fund (1975).

By the Trustees out of funds left to the College by Elsie M. Kupfer '99. \$31,302.

Margaret Irish Lamont Scholarship Fund (1978).

By the Trustees out of funds left to the College by a bequest of Margaret Irish Lamont '25. \$10,000.

Augusta Larned Scholarship Fund (1924).

By bequest of Augusta Larned. \$10,000.

Marjorie Herrmann Lawrence Scholarship Fund (1965/67).

In memory of Marjorie Herrmann Lawrence '19. By the Trustees out of funds left to the College and by gifts from the family. \$40,290.

Harriett Mooney Levy Scholarship Fund (1965).

By bequest of Harriett Mooney Levy. \$69,339.

Joan Sperling Lewinson Scholarship Fund (1955).

With gifts from Joan Sperling Lewinson '13. \$41,989.

Judith Lewittes Scholarship Fund (1957).

In memory of Judith Lewittes '55, by her family and friends. \$6,122.

Anne Elizabeth Lincoln Scholarship Fund (1963).

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

Amy Loveman Scholarship.

See Prizes, page 222.

Louise Grace Luby and James Luby Scholarship Fund (1947).

From the estate of Grace Farrant Luby '93. \$5,000.

Barbara Scoville Maarschalk Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of Barbara Scoville Maarschalk '32. \$5,000.

Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).

With a gift from Stephanie Mattersdorf Miller.

Cecile Lehman Mayer Scholarship Fund (1962).

With a gift from Mr. and Mrs. Mazur. \$25,000.

Leo Mayer Scholarship Fund (1972).

In memory of Leo Mayer by her family. Awarded in alternate years by Barnard College and Columbia College to a deserving student. \$2,000.

Adele Duncan McKeown Scholarship Fund (1973).

By the Trustees out of funds left to the College by a bequest of Adele Duncan McKeown '11. \$5,000.

Memorial Scholarship Fund (1954).

To receive contributions in memory of deceased alumnae and friends. \$58,320.

Dorothy E. Miner Scholarship Fund (1977).

In memory of Dorothy E. Miner '26, with gifts from her family and friends. Awarded to deserving female students. \$7,440.

Scholarship Funds

William Moir Scholarship Fund (1912).

In memory of William Moir by his wife. \$10,000.

Gulli Lindh Muller Scholarship Fund (1972).

By the Trustees out of funds left to the College by the life income contract of Dr. Gulli Lindh Muller '17. \$31,901.

Caroline Church Murray Fund (1918).

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

Annette Florance Nathan Scholarship Fund (1947).

From the estate of Frederick Nathan. \$3,000.

Dora R. Nevins Scholarship Fund (1969).

In loving memory of Dora R. Nevins by bequest of Nannie R. Nevins. \$12,500.

Lucretia Perry Osborn Scholarship Fund (1940).

In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

Dorothy Brockway Osborne Scholarship Fund (1976).

By the Trustees out of funds left to the College from her life income contract. \$12,355.

Elizabeth Palmer Scholarship Fund (1972).

By the Trustees out of funds left to the College by Elizabeth Palmer '15. \$20,000.

Jean T. Palmer Scholarship Fund (1969).

By gifts of alumnae and other friends. \$127,170.

Josephine Bay Paul Scholarship Fund (1978).

By the Charles Ulrick and the Josephine Bay Foundation. \$20,000.

Frances Moore Plunkert Scholarship Fund (1973).

In memory of Frances Moore Plunkert '33, by the Trustees out of funds left to the College by a bequest of William J. Plunkert. \$10,000.

Lucy Powell Scholarship Fund (1971).

By the Trustees out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

M. Gladys Quinby Scholarship Fund (1961).

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

Jacqueline Zelniker Radin Scholarship (1975).

With gifts from the family and friends of Jacqueline Zelniker Radin '59. \$5,614.

Eleanor Kaiser Reinheimer Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Eleanor Kaiser Reinheimer '28. \$5,000.

Eva Rich Scholarship Fund (1968).

By bequest of Eva Jacobs Rich '07. \$53,243.

Peter C. Ritchie, Jr. Scholarship Fund (1937).

By bequest of Virginia J. Ritchie. \$4,436.

Margaret Miller Rogers Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Margaret Miller Rogers '23. \$13,779.

Edith Lowenstein Rossbach Memorial Scholarship Fund (1959).

In memory of Edith Lowenstein Rossbach '19, by her family, friends and classmates. \$23,304.

Edna Heller Sachs Scholarship Fund (1955).

With a gift from Edna Heller Sachs '10. \$16,260.

May and Edgar Salinger Scholarship Fund (1971).

In memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger. \$688,798.

Eleanor Butler Sanders Scholarship Fund (1922).

By bequest of Henry M. Sanders. \$10,000.

Anna M. Sandham Scholarship Fund (1922).

By bequest of Anna M. Sandham to Columbia University. \$10,000.

Schmitt-Kanefent Scholarship Fund (1931).

By bequest of Catherine Schmitt. \$7,102.

Katherine D. Schlayer Scholarship Fund (1975).

With gifts from Katherine D. Schlayer '43. \$20,000.

Scholarship Fund (1901).

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

Katherine Flint Shaddek Scholarship Fund (1961).

By Katherine Flint Shaddek '44. \$25,000.

Max Sloman Scholarship Fund (1971).

By the Trustees out of funds left to the College by a bequest of Max Sloman. \$9,700.

Emily James Smith Scholarship Fund (1899).

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

Frances M. Smith Scholarship Fund (1974).

By the Trustees out of funds left to the College by Frances M. Smith '32. \$199,648.

George W. Smith Scholarship Fund (1906).

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

Edna Phillips Stern Scholarship Fund (1952).

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

Eleanor Holden Stoddard Fund (1977).

By the Trustees out of funds left to the College by a bequest of Eleanor Holden Stoddard '05. \$5,000.

Isabel Greenbaum Stone Scholarship Fund (1957).

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$23,265.

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).

With a bequest from Ethel G. Sturtevant, former Assistant Professor of English. \$20,000.

Solon E. Summerfield Foundation Scholarship Fund (1960).

By gifts from the Solon E. Summerfield Foundation. \$24,500.

Thrift Shop Scholarships (1938).

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

Veltin School Scholarship Fund (1905).

By the alumnae of Mlle. Veltin's School. \$3,000.

Alma F. Wallach Scholarship Fund (1951).

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$8,477.

Dorothy Calman Wallerstein Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Dorothy Calman Wallerstein '09. \$71,731.

Scholarship Funds

Ella Weed Scholarship Fund (1895).

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

Hymen and Helen Werner Scholarship Fund (1964).

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$12,068.

RESTRICTED¹

Mary Gertrude Edson Aldrich Fund (1916).

By Mrs. James Herman Aldrich. For a student, in her senior year, who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

Axe-Houghton Scholarship Fund (1977).

By the estate of Dorothy Houghton '23. For Barnard students with financial need who have completed at least one-half of the courses required for the Bachelor's Degree, who shall have a cumulative average grade of at least 3.0. \$100,000.

Bertha R. Badanes Scholarship Fund (1966).

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

Barnard College Club of Brooklyn Scholarship Fund (1944).

By the Barnard College Club of Brooklyn. Awarded annually to a student from the Brooklyn area. \$5,041.

The Barnard College Club of Detroit Scholarship (1958).

A tuition scholarship with variable stipend. Preference to be given to a new student from Metropolitan Detroit.

Barnard College Club of Houston Scholarship Fund (1969).

For students from the Houston area. \$18,275.

Barnard College Club of New York Scholarship Fund (1952).

For a Barnard student whose home is outside the area of the City of New York. \$53,570.

Barnard-in-Westchester Endowment Fund (1962).

By the Barnard College Club of Westchester County. Preference to be given to students from Westchester County. \$21,491.

Barnard School Alumnae Scholarship Fund (1916).

By the alumnae of the Barnard School for Girls. Preference to be given to nominees of the school. \$4,000.

Willina Barrick Memorial Scholarship Fund (1936).

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

Irving Berlin Scholarship Fund (1950).

By Irving Berlin. For one or more Barnard students of foreign-born parentage. \$23,500.

June Rossbach Bingham Scholarship Fund (1976).

In honor of June Rossbach Bingham '40, by her family. Awarded to a Barnard student majoring in English, preferably one who is interested in pursuing a writing career. \$8,084.

¹Figures indicate principal of funds as of January 1, 1979.

Ida Blair Memorial Fund (1937).

In memory of Ida Blair by the Women's Democratic Union. For the purchase of books for a student, preferably one studying political science. \$700.

Alice Marie-Louise Brett Scholarship Fund (1930).

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. For a student, in the senior year, specializing in French. \$10,000.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000. \$166,614.

Anne Brown Endowment Scholarship Fund (1939).

In memory of Anne Brown, by the Anne Brown Alumnae Association. For Barnard students from the City of New York. \$31,339.

Carpentier Residence Scholarship Fund (1919).

By request of Horace W. Carpentier. For students who are not residents of New York City or its vicinity. \$200,000.

Therese Cassel Scholarship Fund (1973).

By bequest of Therese Cassel '11. For students who were born in New York City, preferably those whose mothers were born in New York City and attended Barnard College. \$5,000.

Eliza Taylor Chisholm Memorial Scholarship Fund (1901).

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

Mrs. Henry Clarke Coe Scholarship Fund (1910).

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

Class of 1919 Decennial Fund (1929).

A tenth reunion gift by the Class of 1919. For a resident student. \$5,050.

Class of 1926 Emergency Student Aid Fund (1976).

A fiftieth reunion gift by the Class of 1926. Income to provide emergency financial aid for needy Barnard students. \$11,177.

Class of 1949 Scholarship Fund (1974).

A twenty-fifth reunion gift by the Class of 1949. For an incoming freshman. \$7,783.

Babette Deutsch Scholarship Fund (1978).

In honor of Babette Deutsch's 60th reunion at Barnard College, by gifts from her family and friends. Awarded to Barnard students who have demonstrated exceptional ability in the literary disciplines of poetry, criticism, or translation. \$4,530.

Augusta Salik Dublin Scholarship Fund (1960).

In memory of Augusta Salik Dublin '06, by her family and friends. To enable a student to continue education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,232.

Christine H. Elde Memorial Scholarships (1968).

Scholarships of up to \$1,000 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former. \$92,133.

Scholarship Funds

Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).

By the major electrical contracting firms of New York City. For sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

May Parker Eggleston Scholarship Fund (1972).

By Mrs. Cary Eggleston '04. For a science student, preferably a student planning to attend medical school. \$6,335.

English Scholarship Fund (1920).

By an anonymous donor. For a student of good standing who is specializing in English. If in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

Gladys Renshaw Esterbrook Scholarship Fund (1958).

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference to be given to students majoring in English or French. \$5,000.

Fairfield County Scholarship (1962).

Preference to be given to entering freshmen from Fairfield County for one year only.

Martha T. Fiske Scholarship Fund (1911).

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. For a student who is not a resident of New York City or its suburbs. \$5,000.

Helen Jenkins Geer Scholarship Fund (1940).

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

German Scholarship Fund (1950).

See Prizes, page 224.

Virginia Gildersleeve International Scholarship Fund (1937).

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. For a foreign student coming to Barnard to study. \$15,100.

Virginia C. Gildersleeve Scholarship Fund (1968).

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. For a student majoring in the humanities, preference to be given to an English major. \$6,605.

Julius Held Scholarship Fund (1970).

By gifts of alumnae and other friends. For a deserving student majoring in Art History. \$36,071.

Emma Hertzog Scholarship Fund (1904).

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

Marion Alice Hoey Fund (1944).

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference to be given to students studying Greek and Latin. \$2,000.

Hannah and Henry Hofheimer Scholarship Fund (1975).

Scholarship of \$2,000 awarded annually to an entering Barnard freshman.

Holland Dames Scholarship (1915).

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

Lillia Babbitt Hyde Scholarship Fund (1953).

By the Lillia Hyde Foundation. For premedical students. \$25,000.

Charlotte Louise Jackson Scholarship Fund (1928).

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. For a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

Mary E. Larkin Joline Scholarship Fund (1927).

By bequest of Mary E. Larkin Joline. For a student who is specializing in music. \$10,000.

Werner Josten Scholarship Fund (1955).

With a gift from Mrs. Werner Josten. Preference to be given to a student majoring in music. If in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

Jessie Kaufmann Scholarship Fund (1902).

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to offer financial assistance. It may be held for the entire college course. \$4,000.

Kimball Scholarship Fund (1938).

By bequest of Lillian Emma Kimball. Awarded to a student from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

Eleanor Kinnicutt Scholarship Fund (1911).

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing, it may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Dr. Ann G. Kuttner Scholarship Fund (1969).

By the Trustees out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner for financial aid, preferably to premedical students. \$217,008.

Bernard Liberman Scholarship Fund (1979).

In memory of Bernard Liberman, by his brother Saul B. Liberman. Awarded annually to pre-medical students at Barnard College. \$10,028.

Carolina Marcial-Dorado Scholarship Fund (1953).

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$17,193.

Raphael Marino Scholarship Fund (1977).

In memory of Raphael Marino, by his sister Michele Steinbock. For a female student interested and proficient in the Italian language, Italian literature or art, or in Italian culture. \$5,000.

Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).

By an anonymous donor. Preference to be given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

Fannie Moulton McLane Scholarship Fund (1961).

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

Mrs. Donald McLean Scholarship Fund (1906).

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout college. \$3,000.

Scholarship Funds

Ferry Starr Morgan Scholarship Fund (1959).

In memory of her father, by bequest of Grace B. Morgan '19. For a student who is majoring in music or philosophy. \$10,000.

Lawrence Morris Scholarship Fund (1968).

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Preference to be given to a nominee of the New York City Mission Society. \$11,590.

Lucy Moses Scholarship Fund (1975).

With a gift from Lucy Moses. Awarded to a pre-medical Barnard student. \$10,000.

Julia Fisher Papper Scholarship Fund (1974).

In memory of Julia Fisher Papper '37, by her husband Dr. Emanuel Papper and friends. Awarded to a senior of superior academic standing who has demonstrated high motivation in work at the College. \$8,230.

Mary Barstow Pope Scholarship Fund (1913).

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

Public Service Scholarship Fund (1934).

By the Women's Organization for National Prohibition Reform. Awarded to Barnard students of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage students of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

Lucille Pulitzer Scholarship Fund (1899).

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

Marie Reimer Scholarship Fund (1953).

See prizes, page 221.

Amelia Agostini de del Rio Scholarship Fund (1955).

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

Lesley Jane Rosen Memorial Scholarship Fund (1975).

In memory of Lesley Jane Rosen '71, by her mother Rita J. Rosen. For an outstanding Barnard student who shows leadership quality and whose subject of interest is urban studies and/or political science. \$5,060.

Dr. Harry Rosenstein Scholarship Fund (1967).

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. For a premedical student. \$5,000.

Joan Rosof Scholarship Fund (1964).

In honor of Joan Rosof '61, by her father, Mr. Murray Rosof. For qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

Felix St. George Scholarship (1955).

In memory of her father, Felix St. George, by bequest of Ida St. George. For an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

Dorothy K. Scheidell Scholarship Fund (1965).

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. For a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,665.

Lillian Schoedler Scholarship Fund (1967).

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

Margarete Schwabe Scholarship Fund (1974).

In memory of Dr. Margarete Schwabe by gifts from her daughter, Dr. Monika M. Eisenbud. For a premedical Barnard student with outstanding ability and idealism. \$6,025.

Clarice Ann Smith Scholarship Fund (1973).

By bequests of Clarice Ann Smith '18. For students who in the judgment of the Trustees and Faculty give promise of excellence in the field of literature and composition. \$168,101.

Fred Curtis Smith Memorial Scholarship Fund (1955).

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

Marion Wesley Smith Scholarship Fund (1978).

By a bequest from Lillian W. Wild in memory of Marion Wesley Smith '29. Awarded to Barnard students majoring in Anthropology. \$21,296.

Hilda Staber Scholarship Fund (1967).

By bequest of Hilda Staber '05. For foreign students of character and ability. \$25,000.

Estella Raphael Steiner Scholarship Fund (1972).

With gifts from Mrs. G. Gustav Steiner '23. For a senior of exceptionally high scholastic standing in Biological Sciences who plans to engage in research in that field. \$10,583.

Beatrice L. Stern Memorial Scholarship Fund (1977).

By bequest of Ruth E. Weill. For a junior or senior Barnard student majoring in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene. \$130,544.

Marion Levi Stern Scholarship Fund (1977).

In memory of Marion Levi Stern '20, by her family. For one or two Barnard freshmen, sophomores, juniors, or seniors in need of financial aid, provided that, if possible and appropriate, the award be made to a student with an interest in the social sciences, such as history, economics, or political science and provided further that the award may be held for a period of up to four years so long as the recipient continues to maintain a good record in the opinion of Barnard's administration. \$75,545.

Emma A. Tillotson Scholarship Fund (1910).

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Clara Bittenwieser Unger Memorial Fund (1938).

In memory of his daughter, Clara Bittenwieser Unger '13, by Joseph L. Bittenwieser. To assist through the senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

Scholarship Funds

Helen Elizabeth Vosburgh Scholarship Fund (1934).

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference to be given to a self-supporting student. \$5,000.

Gertie Emily Gorman Webb Scholarship Fund (1953).

By Charles Webb. For a student nominated by the Department of History. \$4,990.

Allison Wier Scholarship Fund (1977).

By a bequest of Allison Wier '29. For a Barnard student or students who are residents of Westchester County. \$24,000.

Elsa P. Wunderlich Scholarship Fund (1978).

By bequest of Elsa P. Wunderlich '12. Awarded to a German exchange student. \$3,000.

Alma Gluck Zimbalist Scholarship Fund (1940).

By bequest of Alma Gluck Zimbalist. For a student who wishes to major in political science. \$10,000.

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963).

Awarded annually to a graduate who shows exceptional promise in her chosen field of work. Income on \$50,000. Information and applications may be obtained in the Alumnae Office, 115 Milbank.

Anne Davidson Fellowship Fund (1971).

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the faculty committee of the **Program on Environmental Conservation and Management** to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. Income on \$23,533.

George Welwood Murray Graduate Fellowship Fund (1930).

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the **humanities** and/or the **social sciences**. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. Income on \$20,000.

Josephine Paddock Fellowship Fund (1976).

By a bequest from the estate of Ethel Louise Paddock. Awarded annually to a member of the graduating class of Barnard College who, in the opinion of the faculty, has shown the most promise of distinction in such field of graduate study in art as the Faculty shall determine. The holder is to pursue her studies preferably abroad at a college or university of approved standing, but may at her election pursue such studies in the United States. Income on \$105,521.

Grace Potter Rice Fellowship Fund (1935).

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the **natural sciences or mathematics** at Columbia or any university or college of approved standing. Income on \$24,000.

Alpha Zeta Club Graduate Scholarship Fund (1936).

By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. Income on \$21,038.

William Mason Scholarship (1928).

The William Mason Scholarship in **music** is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

PRIZES

General

Estelle M. Allison Prize Fund (1937).

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

Mary E. Allison Prize Fund (1937).

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

Frank Gilbert Bryson Prize (1931).

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years. Income on \$3,000.

The Columbia University Press Prize.

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

Eleanor Thomas Elliott Prize (1973).

In honor of Eleanor Thomas Elliott '48 by Mr. John Elliott, Jr. \$500 awarded annually to the outstanding student in the Junior Class, as chosen by the Honors Committee. The balance of the income shall be applied as a financial aid award to the same student or awarded to another deserving student if the recipient of the prize is not on financial aid. Principal \$25,500.

Katharine Reeve Girard Prize (1964).

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of a major. Income on \$2,500.

Ann Barrow Hamilton Memorial Prize in Journalism (1978).

In memory of Ann Barrow Hamilton '70, by her husband, family, and friends. Awarded annually to a graduating senior who is planning on pursuing a career in the field of journalism and who is judged by the Honors Committee to show the most promise of success in that field based on scholarship, writing ability, and desire to succeed. Income on \$3,831.

The Margaret Holland Bowl (1974).

In memory of Margaret Holland, Professor Emeritus, and Chairman of the Department of Physical Education from 1945 to 1964. Awarded annually for excellence in leadership and participation in the Recreation and Athletic Association.

Margaret Meyer Graduate Scholarship Fund (1952).

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. Income on \$3,000.

Marian Churchill White Prize Fund (1975).

In memory of Marian Churchill White '29, permanent class president, alumnae president, alumnae trustee, and author of *A History of Barnard College* (1954), by her classmates and other friends. Primary intention: to honor the combination of scholarly promise and service to class and college exemplified by Marian Churchill as an undergraduate. A prize of \$500 awarded annually to an outstanding Barnard student in the Sophomore Class who has participated actively in student affairs, as selected by the Faculty Committee on Honors. The balance of the income to be designated as a grant to the same student if she qualifies for financial aid on the basis of need; if not, to an alternate of comparable merit who does so qualify.

Premedical**Helen R. Downes Prize (1964).**

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

The Michael T. Glynne Memorial Prize (1971).

By Linda A. Glynne '71. A prize of \$100 awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences as a non-science major.

Ida and John Kauderer Prize Fund (1973).

Awarded annually to a premedical Barnard student majoring in chemistry. Income on \$1,400.

Art History

Virginia B. Wright Art History Prize Fund (1969).

Awarded to the most promising senior majoring in Art History. Income on \$1,540.

Biological Sciences

Edna Henry Bennett Memorial Fund (1927).

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

Herrman Botanical Prize Fund (1892).

By Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

The Herbert Maule Richards Fund (1933).

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or graduate of Barnard College. Principal \$5,000.

Von Wahl Prize (1915).

In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to continue advanced work in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

Chemistry

American Institute of Chemists, New York Chapter.

Awarded annually to the outstanding student of chemistry who will continue the study of chemistry. A one-year subscription to "The Chemist," and a certificate of honor.

Helen R. Downes Prize (1964).

See Premedical listing.

Ida and John Kauderer Prize (1973).

See Premedical listing.

Marie Reimer Scholarship Fund (1953).

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of the junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of the junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. Principal \$25,100.

Economics

The American Statistical Association Prize, New York Area Chapter (1960).

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

Katharine E. Provost Memorial Prize Fund (1949).

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

Sylvia Kopald Selekman Prize Fund (1960).

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

Education**Arlene Hershey Memorial Fund (1964).**

Awarded annually to a senior in the Education Program.

Stephanie Kossoff Prize (1972).

In memory of Stephanie Kossoff, by her family. A prize of \$100 awarded annually to the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

English**Saint Agatha-Muriel Bowden Memorial Prize Fund (1971).**

By the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

Cabell Greet Prize Fund (1974).

By family and friends. Awarded to a major for excellence in English. Income on \$2,380.

The Elizabeth Janeway Prize for Prose Writing.

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. The final manuscripts must be submitted to the Chairman of the Department of English by March 1. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

Amy Loveman Memorial Fund (1956).

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the English Department. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. Principal \$20,100.

Lenore Marshall Barnard Prizes (1975).

In memory of Lenore Marshall, by The New Hope Foundation. For authors of the best prose and the best poetry published in a literary magazine of the College. Adjudged by the English Department with the aid of such students as it may select. Two at \$100 each.

Sidney Miner Poetry Prize Fund (1962).

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry. Income on \$5,000.

The Helen Prince Memorial Prize Fund (1921).

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded by the Department of English to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

Stains-Berle Prize Fund in Anglo-Saxon (1968).

In memory of her grandmothers, Caroline Fox and Katherina Mohrherr Berle, and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

The Academy of American Poets Prize. (Columbia University)

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by

a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

The Bunner Medal. (Columbia University)

The H.C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult the Departmental Representative for English and Comparative Literature of Columbia University.

Van Rensselaer Prize. (Columbia University)

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

George Edward Woodberry Prize. (Columbia University)

By the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Value of prize about \$100. For additional details consult the Department of English and Comparative Literature.

Environmental Conservation and Management

Henry Sharp Prize Fund (1970).

In memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the program on Environmental Conservation and Management. Income on \$2,930.

French

Helen Marie Carlson French Prize Fund (1965).

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. Income on \$3,016.

Isabelle de Wyzewa Prize Fund (1972).

In memory of Isabelle de Wyzewa by her family and friends. Awarded to the student who writes the best composition in the French course, Masterpieces of Literature from the Middle Ages to the Twentieth Century, which Professor de Wyzewa directed for many years. Income on \$1,000.

Frederic G. Hoffherr French Prize Fund (1961).

In memory of Frederic G. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in intermediate French (Course 3) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

Linda Joan Israel Prize in French (1977).

In memory of Linda Joan Israel '65. By her parents, Mr. and Mrs. Justinian Israel. Awarded annually to a senior French major for work done in the course "Advanced Oral French," or, as an alternative, in the course "Advanced Translation into French." In the absence of both of the above courses, the prize will be given for work in an advanced French poetry course. \$50.

Eleanor Keller Prizes (1968).

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of

Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. Principal \$43,517.

Rosemary Thomas Prize Fund in French (1966).

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department. Awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in the study of French poetic literature. Income on \$10,050.

Geography

Lillian Berle Dare Prize Fund (1974).

Awarded annually to the most proficient Barnard senior majoring in geography who will continue to study in a related field. Income on \$1,000.

German

Dean Prize in German (1952).

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout college done the best work in German language and literature. Income on \$1,000.

German Scholarship Fund (1950).

Awarded at the end of the junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. Principal \$13,200.

Greek and Latin

Earle Prize in Classics. (Columbia University)

A prize of \$150, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905. Awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

Jean Willard Tatlock Memorial Prize Fund (1917).

In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin, income on \$1,250.

History

Eugene H. Byrne History Prize Fund (1960).

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

The Jenny A. Gerard Medal (1908).

By the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society. Awarded annually to the student who is most proficient in Colonial history.

Italian

Bettina Buonocore Salvo Prize Fund (1966).

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

Speranza Italian Prize Fund (1911).

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

Mathematics**Margaret Kenney Jensen Prize Fund (1973).**

In memory of Margaret Kenney Jensen '09, by Miss Evelyn H. McCaskie. Awarded annually preferably to a freshman, sophomore, or junior for excellence in mathematics. Income on \$5,000.

Kohn Mathematical Prize (1892).

By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during the college course. Income on \$1,000.

Music**Robert Emmett Dolan Prize. (Columbia University)**

A cash prize awarded annually by the Department of Music to help a student in any division of the University in paying for instruction on a chosen musical instrument. The award was established by an anonymous donor in memory of Robert Emmett Dolan.

Oriental Studies**Taraknath Das Foundation Prize in Oriental Studies. (Columbia University)**

A prize of \$50 awarded annually to a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

Philosophy**The William Pepperell Montague Prize Fund (1949).**

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

Physics**Henry A. Boorse Prize Fund (1974).**

By alumnae and friends of Dean Boorse on his retirement. Awarded annually to the most promising Barnard sophomore in Physics. Income on \$5,902.

Political Science**Phoebe Morrison Memorial Prize Fund (1969).**

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,595.

James Gordon Bennett Prize. (Columbia University)

A prize of \$175 established through a gift from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

The Caroline Phelps Stokes Prize. (Columbia University)

The Caroline Phelps Stokes Prize of \$100 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult the Departmental Representative for Political Science.

Honors

Psychology

The American Statistical Association Prize, New York Area Chapter (1960).

See Economics listing.

Religion

Samuel Dornfield Prize Fund (1979).

In memory of Samuel Dornfield, by his niece Helene Farber de Aguilar '66. Awarded annually at the discretion of the Religion Department, to a Barnard student whose work in Old Testament or Ancient Near Eastern Studies reflects special sensitivity and academic excellence. \$100.

Caroline Gallup Reed Prize Fund (1916).

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

Russian

Alice Levin Sokolik Prize in Russian (1978).

In memory of Alice Levin Sokolik '65. Awarded annually at commencement to the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature. \$50.

Spanish

The John Bornemann Prize in Spanish (1976).

In memory of John Bornemann by his wife. A book or books awarded annually to a student or students for superior performance in the first or second year language courses.

Spanish Prize (1959).

A prize of \$100 awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. Principal \$2,500.

Susan Huntington Vernon Prize. (Seven Colleges)

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

Urban Studies

Suzanne Farkas Urban Affairs Prize (1972).

By Mr. Robin Farkas. A prize of \$500 awarded annually for the best essay in Urban Affairs.

XII. Associate Alumnae

The Associate Alumnae of Barnard College is made up of nineteen thousand two hundred members from all states of the Union and more than seventy-five foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Associate Alumnae functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is in 115 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard Area Representative living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

Dorothy Coyne Weinberger, President
Maureen McCann Miletta, Secretary
Irma Socci Moore, Director of Alumnae Affairs
Anne Winters Franzen, Associate Director of Alumnae Affairs

DIRECTORS

Marion Patterson Ames
Dorothy Urman Denburg
Barbara Vedrody Grants
Linda Benjamin Hirschson
Bette Kaplan Kerr
Naomi F. Levin
Louise Heublein McCagg
Elise Alberts Pustilnik
Madeleine Hooke Rice
Marcella Rosen
Cecile Singer
Jamienne S. Studley
Janice Farrar Thaddeus

ALUMNAE TRUSTEES

Cecilia Diaz Norris
Madeline Russell Robinton
Charlotte Hanley Scott
Dorothy Coyne Weinberger

Barnard Area Representatives

ARKANSAS

Little Rock

Mrs. Norman E. Holcomb, 2900 North Pierce,
72207

CALIFORNIA

Berkeley

Eleanore Browning, 1732 Berkeley Way, 94703

Monterey

Eloise Ashby Andrus, 2130 San Vito Circle,
93940

Northridge

Julia E. Surtshin, 17550 Prairie Street, 91325

Palo Alto

Susan Eisner Schiff, 550 Madison Avenue.
94303

Sacramento Area

Nina Thomas Bradbury (Mrs. Robert), 4617
Minnesota Avenue, Fair Oaks, 95628

San Francisco Area

Dr. Cynthia P. Johnson, 2070 Pacific Avenue,
Apt. 505, 94109
Mrs. Max Semel, 928 Castro Street, 94114

Santa Barbara

Emily M. Chervenik, 1606 Shoreline Drive,
93109

COLORADO

Boulder

Mrs. Carl C. Zier, 7485 Old Mill Trail, 80301

Denver

Mrs. Alice R. McTammany Fehrenbach, 3232
South Josephine Street, 80210

CONNECTICUT

Fairfield County

Marian B. Blow, 2228 North Street, Fairfield,
06430

Sally Salinger Lindsay (Mrs. Hubert), 10 Outer
Road, South Norwalk, 06854

West Hartford

Susan Fellman (Mrs. Stanley), 8 Walbridge
Road, 06119

DELAWARE

Wilmington

Mary W. Bodensstab (Mrs. Harold), 30 Paxon
Drive, Penarth, 19803

DISTRICT OF COLUMBIA

Peggy Ellen, 2935 Macomb Street, N.W.,
20008

Mrs. Charles B. Rutenberg, 4735 Butterworth
Place, N.W., 20016

See also Rockville and Silver Springs, Md., and
Annandale, Va.

FLORIDA

Miami

Tobie Levy Siegel (Mrs. Warren), 1500 West 25
Street, Miami Beach, 33140

GEORGIA

Atlanta

Mrs. Patrick Finley, 3777 Peachtree Dun-
woody Road, N.E., 30342

Mrs. James R. Paulk, Jr. (Carol Ann), 3037
Mornington Drive, N.W., 30327

HAWAII

Kailua, Oahu

Peggy Anne Gilcher Siegmund (Mrs. Harry M.),
616 Uluhala Street, 96734

ILLINOIS

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Eva Lynn Hollander, 1750 N. Clark, 60614

Evanston

Barbara Johnson (Mrs. Carl S.), 1121 Lake
Avenue, Wilmette, 60091

Lombard

Jane Stewart Heckman (Mrs. Thomas P.), 20
W. 533 Edgewood Road, 60148

IOWA

Des Moines

Margaret Brennan (Mrs. Dan), 645 44th Street,
50312

KANSAS

Goodland

Miss Jo Clare Mangus, P.O. Box 397, 67735
See also St. Joseph, Mo., and Tulsa,
Oklahoma

KENTUCKY

Anchorage

Lea Hayes Fischbach, 1105 Arbor Drive East,
40223

Barnard Area Representatives

Louisville
Carolyn Kimmelfield Balleisen (Mrs. Donald H.), 3102 Runnymede, 40222

LOUISIANA

Monroe
Kay Crandall Causey (Mrs. Alfred L.), 1206 Riverside Drive, 71201

New Orleans
Mrs. Argentine Black Fisher, 1712 Soniat Street, 70115

MARYLAND

Baltimore
Norma Garfen Pressman, 3212 Labyrinth Road, 21208

Silver Spring
Sharon Smith Holston, 9215 Three Oaks Drive, 20901

Joyce Seidman Shankman (Mrs. Sidney), 9502 Clement Road, 20910

MASSACHUSETTS

Boston
Linda Feldman Janower (Mrs. Murray), 41 Varick Hill Road, Waban, 02168

Barbara Mann, 7 Grove Street, #10, 02178

Ruth B. Smith, 10 Dana Street, #307, Cambridge, 03139

Springfield Area
Ann Dawson Johnson (Mrs. Charles), 9 Hickory Drive, Florence, 01060

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Detroit
Denise Jackson Lewis, Personnel Dept., 316 City County Building, Detroit, 48226

Grosse Pointe Park
Mrs. F. Nash Parker (M.C. Parker), 1100 Berkshire Road, 48320

MISSOURI

Kansas City
Carol Ginsberg Drimalas, 5810 Brookside Blvd., 64113

St. Joseph
Elaine Musgrove Guenther (Mrs. William H.), 1901 Lovers Lane, 64505

St. Louis Area
Mrs. Audrey G. DeVoto, 938 Penny Lane, Ballwin, 63011

NEBRASKA

Omaha
Miss Margaret Weymuller, 122 South 39 Street, Apt. 605, 68131

NEW JERSEY

Bergen County
Cheryl Foa Pecorella, 2000 Linwood Avenue, #18K, Fort Lee, 07024

East Windsor
Marcia Weinstein Stern, 13 Jeffrey Lane, 08520

Millburn
Mrs. Peter S. Dykema, 201 Sagamore Road, 07041

Moorestown-South Jersey
Vicki Robertson, 403N Washington Street, Moorestown, 08057

NEW YORK

Albany
Deborah Schwartz Rapaport (Mrs. David), Bender Lane, Glenmont, 12077

Poughkeepsie
Mrs. Lawrence A. Heaton, 101 Ferris Lane, 12603

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Southport
Mrs. Robert M. Cornish, 512 Howe Street, 28461

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Cleveland
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Professor Elizabeth A. Moody, Cleveland State University, 44115

Barnard Area Representatives

OREGON

Portland

Susan K. Storms (Mrs. Edgar E.), 780 SW
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PENNSYLVANIA

Philadelphia

Nancy Amsterdam Charkes (Mrs. David), 428
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Nury Reichert, Suite 410, Academy House,
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Rio Piedras

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Dr. Bonnie B. Oh, 2231 West Apple Tree Road,
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Port Edwards

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XIII. Statistics

	1889 to 1890	1899 to 1900	1909 to 1910	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1954 to 1955	1959 to 1960	1964 to 1965	1969 to 1970	1974 to 1975	1975 to 1976	1976 to 1977	1977 to 1978	1978 to 1979
Undergraduates, Regular																			
Seniors		40	62	87	126	227	181	164	208	260	245	325	355	433	572	553	517	553	600
Juniors		40	122	190	259	237	220	191	314	277	340	356	414	480	554	486	531	551	532
Sophomores		37	109	193	234	247	226	210	314	272	317	352	391	517	488	469	511	511	590
Freshmen	14	54	188	224	271	311	267	246	324	271	304	385	415	485	437	453	464	535	497
Unclassified students					57	54	103	143	56	17	1	9	8	21	....	4	2	—	—
	14	171	481	694	947	1076	997	954	1216	1097	1207	1427	1583	1936	2051	1965	2025	2150	2219
Special Students:																			
Matriculated		21	24	39	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated			30	22	33	28	29	31	21	15	20	28	19	22	33	40	41	40	54
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music Students (1896-1904, 1914-1915)		41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	22	62	54	61	33	28	29	31	21	15	20	28	19	22	33	40	41	40	54
Graduate Students:																			
(1890-1900)		82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total Registration	36	315	535	755	980	1104	1026	985	1237	1112	1227	1455	1602	1958	2084	2005	2066	2190	2273
Degrees Conferred:																			
B.		39	88	139	198	247	221	206	270	303	258	347	367	437	497	495	475	422	452
S (1909-1918)			2	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
M (1898-1900)		18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ph.D. (1899-1900)		1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Total Bachelor's Degrees conferred 1893-1978, A.B., 19,537, B.S. 77.

These figures represent registration in the Autumn Term plus students admitted to the Spring Term.

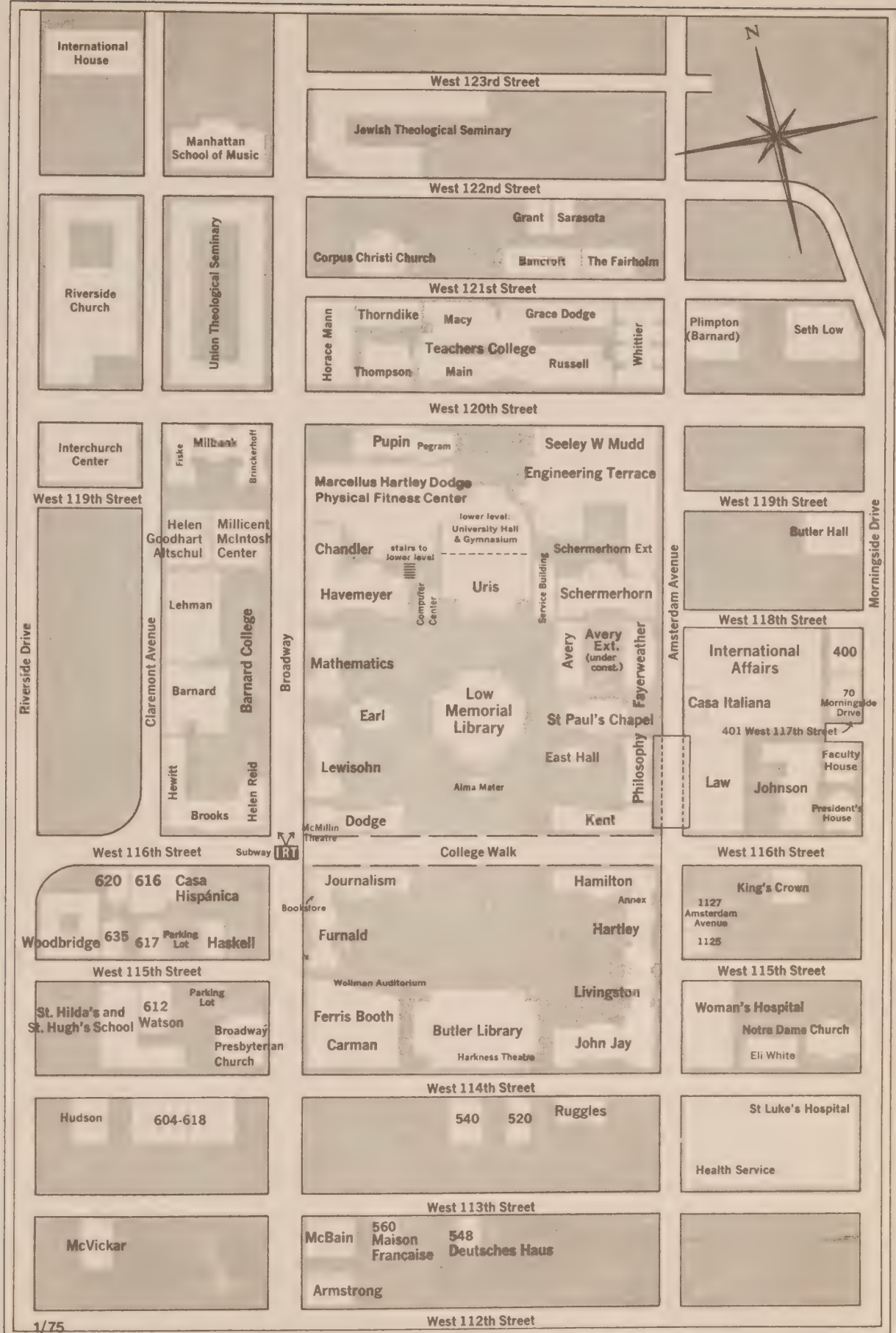
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